



TELEPHONE NUMBER,
BANK 852.

ENGLAND - 1859.

Established in

AUSTRALASIA - 1885.

TELEGRAPHIC ADDRESS,
"CHEMICUS LONDON."

Registered as a Newspaper.

985. VOL. LIV.

MARCH 4, 1899.

(Subscription 10s. per annum, including Diary, Post Free the World over. Single Copies, 4d. each; Winter and Summer Issues, 1s. each, Post Free.)

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LONDON, S.W.

THE CHEMIST & DRUGGIST SUPPLEMENT.

LONDON: 42 CANNON STREET, E.C.
SATURDAY, MARCH 4, 1899.

Businesses for Disposal
Businesses Wanted
Premises to Let
Auction Sales

ALSO EXCHANGE COLUMN.
For Bargains see last page of this Supplement.

Partnerships
Situations Vacant
Situations Wanted
Miscellaneous

A Copy of this Supplement is inserted in every number issued of "The Chemist and Druggist."

CHEMISTS' TRANSFERS.

MESSRS. ORRIDGE & CO., 32 LUDGATE HILL, E.C.

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

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3.—£1310.—**LONDON SUBURB (Southern)**—Very attractive locality, good educational advantages; Dispensing and Retail, with handsome shop; returns £1,300; net profit £400 last year; good residence; all particulars at interview; price £1,200.

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6.—£250.—**LONDON SUBURB, S.W.**—Good-class Business, Retail and Dispensing; very nice situation, close to station; buildings extending rapidly; practically no opposition; returns present rate £5 per week; attractive shop, nicely fitted; good residence; price £200.

7.—£1300.—**LONDON. W.**—Dispensing, Prescribing, and Retail; old-established concern, increasing yearly; returns last year over £1,300, very good profits (about 50 per cent.); one or two good proprietaries are held; good stock, large residence; price £1,000.

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9.—£700.—**EASTERN SUBURB**—Modern pharmacy; held by vendor about 7 years; returns £700, with good profits; handsome shop and good stock; roomy house, small garden; price about £550.

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11.—£900.—**HOME COUNTY**—Retail, Dispensing, and Prescribing Business, situate in close proximity to busy railway station; returns last year exceeded £900, with large profits; good residence; held on long lease; price £750.

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13.—£800.—**SOMERSET**—Mixed Country Business; very old-established concern; practically unopposed; returns about £800 yearly; net profit £200; large and convenient house, with good garden attached; price about £400; offer entertained.

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Particulars of any of the above will be furnished on application.

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CAPITAL Shop to Let, in main road, Manor Park; in midst of rapidly-increasing neighbourhood; suitable for Chemist; rent £50. Burrows, Auctioneers, Manor Park, London, E.

SHOP (handsome) to Let, No. 570 Leytonstone Road; best part, next post-office; 8 unusually comfortable dwelling-rooms, very long garden, back entrance, &c.; rent £50; splendid opening for a Chemist. Apply on premises, or to Mr. Bacon, 25 Liverpool Street, E.C.

TO Medical Men seeking to establish a Practice, an excellent opportunity offers; a suitable House to Let, in exact position, charmingly situate in Devonshire; no premium required. Apply to A. B., 42/12, Office of this Paper.

TENDERS.

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THE Treasurer and Governors invite Tenders for the supply of Drugs, Chemicals, and Surgical Dressings for Twelve Months from April 1st, 1899.

Further particulars, with form of tender, may be obtained on application at the Superintendent's office. Tenders, duly sealed, are to be sent in to the Counting House not later than March 11th.

E. O. PERRY, Superintendent.

Guy's Hospital, February 21st, 1899.

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£450 returns.—**STAFFS**.—Light Retail and Prescribing; price £150.

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£600 returns.—**LONDON, W.**—Dispensing and Light Retail; Branch; energetic man could vastly improve returns; price £250, or valuation.

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£1,200 returns.—**DERBYSHIRE**.—General Retail, Prescribing, and own Specialities; profit quite up to the average; will bear full investigation; price about £1,000.

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£600 returns.—**WORCESTERSHIRE**.—Light Retail, Dispensing, and Prescribing; net profit £200; has never had personal attention; valuation £350.

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2.—**LINCOLNSHIRE**.—Best position in large market town; Retail, Dispensing, and Prescribing trade; returns over £1,100 under management; principal would much increase; price £750 or valuation.

3.—**LINCOLNSHIRE**.—Good-class Retail and Dispensing Business; returns £760; shop handsomely fitted and well stocked; electric light, &c.; good house; price £700.

4.—**BRISTOL (near)**.—Light Retail and Prescribing Business; returns nearly £650; good profits; low rent; good house; shop is well fitted and stocked; scope for much larger trade; price £500.

5.—**MANCHESTER (near)**.—Light Retail and Prescribing Business; returns over £600; well-fitted shop, with good stock; old-established; price £450; investigation courted.

6.—**EASTERN COUNTY**.—In excellent market town; good-class Country trade, producing a net profit of over £300 yearly; stock and fixtures worth £500; price £600, or offer; Partnership entertained.

7.—**SUFFOLK**.—Village business, totally unopposed; returns £445, steadily growing; rent £20; good house, garden, &c.; well-fitted shop and well stocked; price £275.

8.—**LONDON, W.**—Good-class Cash Retail and Dispensing Business; returns over £1,300; net profit over £350; elegantly-fitted shop, well stocked; good house; price £1,000.

9.—**LONDON, N.**—Branch Business, under management. Retail and Prescribing Business; returns £400 under management; low rent; comfortable house; price £250, or offer.

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£1,314 returns.—**SUBURBS, NORTHERN TOWN**.—Good Pharmacy; 7,000 prescriptions annually; appointment (optional) with pays rent; good house; separate entrance.

£750 returns.—**NORTHERN SEASIDE**.—Profit £250, after paying Assistant in season; rent £50; corner shop, well fitted, electric light; price valuation.

£1,618 returns.—**N.W. ENGLAND**.—Profit £640; high-class Business in pleasant neighbourhood; price £1,300; house, separate entrance and corner.

£500 returns.—**LANCASHIRE TOWN**.—A really nicely-fitted Pharmacy, with convenient house; rent £25 on 7 years' lease; electric light; mahogany fittings, all up to date; no reasonable offer refused on account of owner having engagement to accept at once.

£700 returns.—**MIDDLESEX**.—Light Retail, Dispensing, and Family trade; rapidly increasing; convenient house, large garden; rent £34 a 14 years' lease; price valuation.

£1,000 returns.—**STAFFORDSHIRE**.—Profit net £300; Mixed Retail and Local Wholesale, easily worked; rent £40, with stable, which would let for £10; rates £4; price valuation about £400.

Particulars of Businesses of various sizes and localities free on application.

NO CHARGE TO PURCHASERS.

Telegraphic Address—"TOMTOM."

Telephone No. 3965, National.

BUSINESSES FOR DISPOSAL.

3s. 6d. for 50 words or less; 6d. for every 10 words beyond.

BERKSHIRE.—New Business, opened 12 months; returns £3; Dispensing, Prescribing, and Light Retail; practically no patent, increasing neighbourhood; good house; price £250. Apply, 41, 8, Office of this Paper.

BRIGHTON.—First-class Light Retail and Dispensing Business; returns nearly £1,000; fair amount of Dispensing (about 1,200 yearly); low rent, long valuable lease; elegant mahogany fittings; stock and fittings worth about £650; price £750; strictest investigation courted. "Camphora" (43/37), Office of this Paper.

CHESHIRE.—For immediate Disposal, old-established Retail, Dispensing and Prescribing Business; good opening for young beginner; rent with dwelling-house £55; stock, fixtures and fittings at valuation (about £165). Apply to J. R. Summ & Sons, Estate Agents, 56 Hamilton Square, Birkbeckhead.

CUMBERLAND.—Cash Retail and Prescribing Business; returns about £6 weekly; patents almost nil; capable of large increase; lease; price £180 or reasonable offer. Apply, "Geumina," 18 Orchard Street, Carlisle.

DISTANT SUBURB OF LONDON.—Good-class Retail, Dispensing and Prescribing Business; in same hands many years; returns £1,300, making a clear net profit of over £400 yearly; vendor, leaving no drug-trade, will accept £850, including valuable stock, fixtures, and let strictest investigation offered. "Trional" (43/38), Office of this Paper.

GLOUCESTERSHIRE.—Old-established Light Retail and Dispensing Business, in country town, having Gibby's Agency attached; no opposition; well-fitted and heavily stocked shop, with good house; lease has 12 years to run; returns £860; price £650. Apply to "Kino" (33/36), Office of this Paper.

GLOUCESTERSHIRE.—Immediate Disposal, owner leaving the trade, chiefly Dispensing and Light Retail, at good profits; residential part of large town, and unopposed; returns about £100; roomy house, low rental; price valuation, about £300. Apply, C. B. A. (40/35), Office of this Paper.

HULL.—For immediate Disposal, through ill-health, a sound Cash, Light Retail, with Wines and Spirits; returns £1,250 to £1,340; profit £450 to £500; growing neighbourhood; smart man would soon do £2,000; price £700 cash; rent £45, 7 years' lease. Apply, "Celeritas" (35/38), Office of this Paper.

ISLE OF MAN.—Rare chance.—For Disposal, high-class Retail and Dispensing Business; principal thoroughfare; most elegantly fitted in the island, valuable specialties; cost £1,100 three years ago; business much improved since then; owner, going to South Africa, will accept £775; returns £1,000; unlimited scope; splendid house; no qualification necessary. Particulars from J. Guy, Queen's Park, Caester.

LANCASHIRE (North-West).—Healthy district; Mixed Country Business; unmer management; returns about £800; no opposition or dent at; population 4,000; established nearly 30 years; excellent opening, pushing qualified man; stock and business £300; premises advertiser's; rent £25 and rates; or sell, £450; ill-health. Address, 8 Hill Street, Old Town, Hastings.

LINCOLNSHIRE.—£676 returns.—For Disposal, in Lincolnshire, midst of agriculture, as a going concern, profitable Mixed Business, good Horse and Cattle Medicine trade, now under manager; rent £26; house; price £150 cash, or terms can be arranged; only bona-fide buyers treated with; no agents. For particulars apply, "Gregor," c/o Lofthouse & Saltner, Chemists, Hull.

LIVERPOOL.—Genuine sound Retail and Dispensing Business; returns £700; good profits; been in same hands over 30 years; illness cause of sale; good residence, held on lease. X.Y.Z., c/o Messrs. Evans, Sons & Co., Hanover Street, Liverpool.

LONDON, N.—Chemist and Druggist's Business for immediate Disposal (death vacancy), situate in main road, Islington, London, N.; old established; same hands 15 years; mahogany fixtures; good going concern; fairly well stocked; price £250; no agents. Address, F. A. B., 42 London Road, Forest Hill, London, S.E.

LONDON, S.E.—£150 or fair offer.—A Business for Disposal, S.E. source of London; established 39 years; long garden, five rooms and shop; rent £36; returns about £200 "Beta," c/o Smith & Co., 132 Borough, London, S.E.

LONDON, E.—£300.—Very profitable Retail; steadily increasing; exceptionally well situated for doing a pushing trade; good locality; return returns nearly £500; good-sized house attached, on lease; great bargain; satisfactory reasons for selling. 40/1, Office of this Paper.

LONDON, S.E. (Main Road).—An old-established Retail and Prescribing trade for immediate Disposal through illness; returns £1,200; price £300; good value for the money; references required. Apply, T. H., c/o Messrs. Hodgkinson, Clarke & Ward, 101 Whitecross Street, E.C.

PORTSMOUTH.—For immediate Disposal, in great position, well-fitted and stocked Shop with good house and garden; very profitable business; has been carried on for 40 years; death sole cause of selling; a fortune to up-to-date Chemist and Prescriber; price £100, rent £55. Apply, O. Counsel, Auctioneer, Portsmouth.

READING (near).—Light Retail and Prescribing Business, in small town, with not much opposition; returns £7 weekly, with scope for improvement; rent low; convenient residence, with garden attached; price £180, or valuation of stock and fixtures. "Ralph" (43/40), Office of this Paper.

RETFORD, NOTTS.—An old-established Retail and Dispensing Business to be Disposed of; good sale for own Proprietary articles; principal thoroughfare; opposite post-office; population 12,000. Apply, Exrs. of the late H. Harvey, Retford, Notts.

SCOTLAND.—Old-established Drug Business, in rising seaport town; rapidly-increasing population and increasing business; central position; good reason for disposal; rent £16; price, valuation (under £200) or cash offer. Ferrie, Chemist, Boness, N.B.

SOUTH WALES.—For Sale, a Chemist's Retail Business, in a populous district, near station; commanding position, and good double frontage; rent £35; price £350, of which £200 can remain. Apply, 38/13, Office of this Paper.

WORCESTERSHIRE.—Profitable Light Retail Business; nicely fitted shop, well stocked; the only qualified Chemist in district with population of over 5,000; low rent; a splendid opening for a beginner; returns nearly £800; price £450. R. J. R., Heaton, Spire & Francis, 38 Southwark Street, S.E.

ADVERTISER will furnish particulars genuine Light Retail Prescribing Business; balance seldom met with; unopposed; population 12,000; Patents nil; full prices; net profit, after paying all expenses, nearly 50 per cent. Apply, "Cymro" (33/9), Office of this Paper.

ADVERTISER having a good-class Dispensing Business, also a Retail and Prescribing Cash Business, both thoroughly genuine and open to every investigation, must sell one of them, prices respectively about £550 and £275. Bona-fide purchasers (no agents), apply to "Loretin" (42/23), Office of this Paper.

A SMALL genuine Business for immediate Disposal, in a healthy and rising Suburb of London; no opposition, and plenty of scope for increase; convenient house with side and back entrance; small garden; old mahogany fittings; a small sum only required. "Statim" (44/6), Office of this Paper.

BEST part main road, large East Coast town; good General, Light, profitable Retail; established and in same hands many years; returns about £300, could be doubled with assistance; price £750, or partnership entertained; no agents. Apply, 40/33, Office of this Paper.

CHEMIST'S middle-class Retail and Prescribing, with Dentistry; no heavy trade and no booking; 1898 returns, £500, including £70 from Dentistry; good house, private and back entrances; large shop, well fitted and stocked, corner position, plate glass; in the thoroughfare populous neighbourhood; cause, ill-health; price £350, or at valuation. 43/31, Office of this Paper.

FOR immediate Sale (reasons will be fully explained to purchaser), an exceedingly profitable and genuine Family Business, in one of the best positions in Yorkshire; returns (increasing) £850 at long prices; good house; splendid stock and good range of proprietaries; price £800; fullest investigation courted; established over 50 years. 42/6, Office of this Paper.

FOR immediate Disposal, in good neighbourhood, together or separately, a high-class Dispensing Business; Prescriptions average over 100 a week, net profit £350; also a good-class Retail and Dispensing Business, net profit £260; suit man used to first-class trade; fullest investigation; vendor taking larger business. Apply, A. B., c/o Messrs. Jas. Woolley, Sons & Co., Manchester.

FOR Sale, a Druggist's Business in Ayr; stock and fittings about £500. R. & J. A. MacCallum Solicitors, Ayr.

GENUINE Light Retail, Dispensing, and Prescribing Business; improves yearly; good corner position; long lease; net profit about £250; shop nicely fitted and well stocked; about £500 wanted, which is approximate valuation of stock and fixtures; will bear investigation. "Ichthyol" (42/20), Office of this Paper.

GOOD Opening for Young Beginner; stock and fixtures worth the money; good Business for disposal; low rental; genuine buyers only; send stamped envelope; £120. 33/35, Office of this Paper.

TO be Sold, a well-fitted Chemist corner Shop at valuation of stock and fixtures; established many years; or business may be carried on and new lease granted; situation in a highly respectable Western neighbourhood, the property of a medical man, now retiring from Retail. Apply, Mr. Jones, Chemist, 8 Shepherd's Bush Green, W. (opposite Uxbridge Road Station).

TO be Disposed of as a going concern with immediate possession, the Business at present carried on by Templar E. Malins, Chemist, 107 Woodville Road, Cardiff; the takings £25 a week; rent £55 per annum; ingoing about £400. For further particulars, apply Poppleton & Aopley, C.A., 26 Corporation Street, Birmingham, 11 John William Street, Huddersfield, or 3 Barbican, London.

TO be Disposed of, a well-established Whole ale Drug and Manufacturing Business, with a good connection and excellent reputation; the premises are light, commodious, convenient, and well arranged; the plant is modern, and comprises latest improvements; several Specialties are attached to the business, which includes no heavy trade, and altogether affords unusual opportunities for a high-class Druggist, for a provincial house desiring a London depot and manufactory, or a City house in need of additional facilities and space. Address, "Drugs," c/o R. ynell & Son, 44 Canbery Lane, W.C.

£250 CASH, and balance by arrangement, will secure profitable ready-money Business, South London; gross profits under owner's care, about £450 a year; two years under manager; satisfactory reasons for disposal; exceptional opportunity for qualified man with limited capital. Address, W. R. (44/23), Office of this Paper.

BUSINESSES WANTED.

WANTED, to purchase a good-class Retail Dispensing, and Prescribing Business, returning £800 to £1,200, country- or provincial town preferred; can pay cash, and, if desired, take immediate possession. W. J. W. (43/39), Office of this Paper.

WANTED, immediately, a good, sound Retail and Dispensing Business doing £800 or upwards, or a Partnership with view to succession; capital to invest about £1,250. Locality no object, providing there is a decent house. "Major," c/o Messrs. Newbery & Son 1 King Edward Street, E.C.

WANTED, for cash, a sound good-class Light Retail and Dispensing Business, yielding net profit of £300 to £400; South preferred; moderate rent; principal only dealt with, and only those who can offer a genuine concern need apply. Full particulars, in confidence, to "Sanitas" (42/34), Office of this Paper.

SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words beyond.

RETAIL.

BIRKENHEAD.—Manager for Branch; qualified; outdoors. Full particulars to James, Chemist, Birkenhead.

BIRMINGHAM.—Junior or Improver; at once; General Retail, Dispensing, Prescribing; generally, with good address; must be active and willing; time and assistance for study; outdoors; dinners and tea provided, Sundays excepted; one seeking permanency preferred. State age, height, references, salary required, enclose photo, to be returned, Walter Scott, 316 Wheeler Street, Birmingham.

BLANDFORD.—Junior or Assistant; indoors; neat, quick, obliging; of good address and experience. Full particulars and photo to R. H. Groves, Pharmaceutical Chemist, Blandford.

SITUATIONS OPEN—cont.

RETAIL—continued.

BOUGHTON, CHESTER.—Wanted, qualified Assistant for Branch; good Dispenser and Counterman. State age, experience, and salary required (indoors), and enclose photo (to be returned), to Thos. Carter, Pharmaceutical Chemist, Boughton, Chester.

BRIDGEND.—Assistant wanted; outdoors; accustomed to Dispensing and General trade; industrious, and obliging in manner; no Sunday duty. Apply, giving age when disengaged, and usual particulars, to D. Jenkins Chemist, Bridgend, Glam.

BRIGHTON (near).—Wanted, Junior Assistant; outdoors; one with knowledge of Telegraphy and willing to assist in post-office preferred. Apply, stating age, salary required, Fawthrop, Post-office, Portslade-by-Sea.

BRISTOL.—Improver or Junior wanted for brisk Retail business; half-holiday weekly from 2 p.m. Apply, stating age, height, salary required (indoors), and references, with photo if possible (to be returned), to F. Moss, Chemist, Kingswood, Bristol.

CAMBRIDGE.—Wanted, Junior or Improver, outdoors; one who has served part of his apprenticeship would be treated with. Sturton, Chemist, Cambridge.

CAPE TOWN.—Assistant required, immediately, of good experience, holding Minor qualification, neat and accurate Dispenser, and write a good legible hand; aged about 23; salary, 1st year £12 per month; 2nd year £13; 3rd year £14; sleeping accommodation provided; second-class passage paid out, conditional on a 3 years' agreement being signed. Candidates, who must hold undeniable references, address, "Cape," Messrs. Evans, Lecher & Webb, 60 Bartholomew Close, London, E.C.

CARDIFF.—Junior Assistant (outdoors), well up in Dispensing. Apply, stating age, height, salary, and references, to J. Munnay, 1 High Street, Cardiff.

CARDIFF.—Wanted, Junior, with knowledge of Photography, of smart address and courteous manners, for select business. State age, height, and salary, in or out doors, Sanders' City Pharmacy, Cardiff.

CARDIFF.—Assistant wanted for the Counter, accustomed to Store trade; must be well recommended. Apply, stating age, height, experience, and salary required (outdoors), photo, Duck's Drug Stores, Cardiff.

CARDIFF.—Wanted, an Assistant with experience in a good-class Dispensing business, and of good address; aged 22 to 24; one day a week off at 2.30. Apply, with full particulars, to D. Harries, 102 Queen Street, Cardiff.

CHATHAM.—Wanted, Junior or Improver (outdoors), about 21, for quick Retail business; one with a knowledge of Photography preferred. Apply, stating height, salary required, and full particulars of experience, with references and photo, to Goldthorpe & Cook, Oash Chemists, High Street, Chatham.

CHELMSFORD.—Active Junior wanted, about 18th March; outdoors; hours 8.30 to 9; one who has had some experience in Agricultural business preferred. Write, with full particulars as to age, height, previous experience, salary required, &c., enclosing photo, to the Essex County Drug Co., 18 Duke Street, Chelmsford.

CROYDON.—Henry's Drug Stores require, immediately, two Junior Assistants for a large high-class pharmacy; one with a knowledge of Photography. Apply, personally or by letter, with full particulars of age, height, experience, salary, reference, to "Manager," 103 and 105 North End, Croydon.

DORKING.—Assistant for good-class business, and with knowledge of Photography, to live on premises with caretaker. Send full particulars, with photo and salary expected, to F. W. Doubleday, Dorking, Surrey.

DURBAN, NATAL.—Qualified Assistant wanted; young man, good appearance, quick and accurate Dispenser; salary, £150 first year, £165 second, £180 third; room supplied, but not board; second-class passage paid; 3 years' agreement to be signed. Apply, with full particulars, to E. M. (44/22), Office of this Paper.

EASTBOURNE.—Improver or Junior; indoors; would suit one just out of apprenticeship. Apply, with full particulars, to J. Gibbs & Son, The Central Pharmacy, Eastbourne.

EASTBOURNE.—Qualified Assistant, accustomed to good-class Dispensing; three kept; state salary and usual particulars in first letter; also Improver; both indoors. J. Senior, Chemist, Eastbourne.

EASTERN COUNTIES.—Wanted, for a large town in the Eastern Counties, a quick Junior, about 20, in or out doors, for good-class business, with some knowledge of Dispensing. Address with full particulars as to age, height, salary, references, &c., to P. B., c/o Messrs. Davy, Hill & Co., 64 Park Street, Southwark, S.E.

EXETER.—Messrs. Stone & Son, Exeter, require qualified Manager (married preferred), good address, 30 to 45 years of age, for good Retail, Dispensing, and Agricultural business; permanency; outdoors. State salary required, references, &c.

FOR THE EAST.—Good opening for a thoroughly competent qualified Manager, with first-class City experience; about 25 to 30; must be energetic, active and capable, liberal salary and terms. Apply, by letter, to Dakin Brothers, 87A Leadenhall Street, E.C.

GATESHEAD.—Assistant (active) for Retail and part Wholesale; Wednesday half-holiday; no Sunday duty. State salary (outdoors), when disengaged, &c., Baker, 40 High Street, Gateshead.

HARROGATE.—A smart Junior wanted in a high-class Dispensary and Retail; outdoors. State full particulars, salary, &c., Wilsons (Limited), 40 James Street, Harrogate.

HARTLEPOOL.—Wanted, qualified Assistant-Manager, for pushing business; aged about 25. Apply, with references, "Manager," Northgate, Hartlepool.

KENT.—As Junior in smart country town; two kept; good-class business; indoors; close weekly at 2; required at once. Apply, stating age, experience, references, and salary required, to "Pharma" (41/11), Office of this Paper.

LANCASHIRE (Seaside).—Junior Assistant; unqualified; active, energetic, good salesman, &c.; state references, age, height, enclose photo, with full particulars; Store experience preferred. Office of this Paper.

LEEDS.—Wanted for Leeds at once, a qualified Assistant, competent of Managing; good Dispenser, quick salesman; indoors. Also unqualified Assistant, who can take charge of Branch if necessary; doors. Apply, "Tuss" (42/25), Office of this Paper.

LEICESTER.—Branch Manager, qualified; Tooth Extractor. Photo knowledge; good moral character. Apply, stating salary required (with house and gas free, references, and photo if possible "Branch" (40/35), Office of this Paper.

LEOMINSTER.—Immediately; Junior Assistant; one accustomed to photographic trade preferred, but not essential. Ellwood & Leominster.

LIVERPOOL.—Qualified Assistant and Junior (about 24) wanted immediately; indoors. Apply, S. Stephenson, 98 Kensington, Liverpool.

LIVERPOOL.—Wanted, Manager for Branch; qualified; good references; liberal salary to capable man. Apply, stating age as required (outdoors), with photo, to "Chemist," c/o Evans, Sons & 56 Hanover Street, Liverpool.

LIVERPOOL DISTRICT.—Qualified Assistant to live on premises with another and a housekeeper; also a Junior or Improver wanted. Address, with usual particulars and salary required, 42/5, Office of Paper.

LONDON, E.—Wanted, a qualified Manager; must be steady; have good references; salary 50s. week; outdoors. Apply, by letter only, Ballard, 393 Commercial Road East.

LONDON, W.—Hooper & Company, 55 Grosvenor Street, London, W., want a qualified Junior Assistant; four kept. State full particulars as to age, height, and salary required (indoors), enclosing photo.

LONDON, N.—Junior or Improver; outdoors; suit student. Address, personally, if possible, to Harris, 78 East Road, City Road, N.

LONDON, N.—Wanted, at once, an Improver or Junior; indoors. Apply, by letter, or personally, with usual particulars, to Mr. Dan 3 Wightman Road, Harringay, N.

LONDON, W.—Wanted, qualified Assistant, in first-class Dispensing business. Apply personally, or send full particulars to J. Matthews, 68 Queen's Gardens, Hyde Park, W.

LONDON, S.W.—Wanted, the first week in April, an Assistant, about 23, for a Light Retail and Dispensing business; indoors; comfortable home, &c. Apply to Mr. Williams, Chemist, 68 West Hill, Putney, S.W.

LONDON, S.W.—Qualified married man, about 28, to work up Branch business. Apply, by letter first, to W. E. Clarke, Chemist, 100 Street, Teddington, S.W.

LONDON, S.W.—Wanted, good Junior, accustomed to good-class business; must be active and obliging, with good reference. C. H. & Co, Surbiton, S.W.

LONDON, W.—Wanted, Assistant, aged 22 to 27, for Dispensing counter; neatness and accuracy absolutely essential; hours 8 to 7; close at 2 on Saturdays. Apply to "Head Chemist," Kensington S.W., West Kensington, W.

LONDON, W.—£40 (indoors) to smart Junior; must be good Dispenser and obliging at Counter. State full particulars to W. Shill, 66 Goldhawk Road, Shepherd's Bush, W.

LONDON, W.—Junior Assistant wanted; four employed. Apply between 10.30 and 6.30, F. W. Warren & Co., 340 Harrow Road, London, W.

LONDON, S.E.—Qualified Assistant, about 23, required; indoors. Apply, stating age, height, salary required, and enclose photo. Frost & Harrison, 3 Etnam Road, Blackheath, S.E.

LONDON, N.W.—Junior; abstainer; indoors; at once; about 18 or 20 years of age; hours 8 till 10, and alternate Sunday evenings; at liberty Thursday afternoon and evening; salary £30. Apply personally, or enclosing carte, stating height, age, references, &c., to Mr. T. H. 91 Hampstead Road, N.W. One only kept.

LONDON, N.—Wanted, Junior, about 21 years of age. State age, experience, when disengaged, and salary expected, M., 346 E. Road, London, N.

LONDON, S.E.—Junior (indoors), good Dispenser; accustomed to good-class business. Apply, with full particulars, salary, references, &c. (personal application preferred), to H. G. Wildman, 88 Norwood Road, Herne Hill, S.E.

LONDON, N.E.—Wanted, an experienced Assistant (indoors), not under 26; one with a knowledge of Photography and Store business preferred. State age, height, experience, salary required, &c., 42/11, Office of this Paper.

LONDON, S.E.—Assistant required, aged about 22; must be trustworthy, obliging, and an abstainer; time for study; hours moderate, and no Sunday duty. Apply, or if by letter with photo, stating experience, height, and salary required, W. T. Phillips, 193 Knights' Hill Road, West Norwood, S.E.

LONDON, W.—Wanted, qualified Assistant, aged about 24, in first-class Suburb. Apply, Elliott & Co, 192 Uxbridge Road, W.

LONDON, N.W.—Smart Junior or Improver, at once (outdoors), whole or part time, in brick Retail and Dispensing Business. Apply personally, if possible, or send full particulars, with e.v., as to age, height, salary required, experience, &c., to Goodchild Drug Stores, 12 High Street, Harlesden (near Willesden Junction).

LONDON.—Required, about a month's time, a reliable, qualified Assistant, with first-class references; one used to medium-class Retail and Dispensing; liberal salary to suitable man; personal interview arranged. Please state fullest particulars to 44/21, Office of this Paper.

MAIDENHEAD.—Wanted, an active Assistant; accurate Dispenser; good address; abstainer. Apply, giving full particulars, A. Upson, Chemist and Optician, 35 High Street, Maidenhead.

MANCHESTER.—Wanted, Improver in Mixed Retail and Dispensing business, or part-time Assistant might be arranged with. Full particulars, with salary (outdoors), to Taylor, Chemist, 20 Great Clowes Street, Lower Broughton.

MARGATE.—Wanted, an Assistant, accustomed to good-class Dispensing and Retail. Kindly state full particulars of previous experience, age, height, salary expected, and enclose photo, to D. T. Evans, Chemist, Margate.

NEWCASTLE.—Wanted, Junior Assistant for Light Retail and Dispensing business with knowledge of Photography preferred, but not essential. Apply by letter, stating age, height, experience, and salary expected, with photo if possible (to be returned), Kirkup, Chemist, 9 Westmorland Road, Newcastle.

NORTH WALES.—Junior Assistant wanted. Apply to "Chemist," 26 High Street, Carnarvon, North Wales.

NORWOOD.—Two Assistants wanted for good-class Dispensing business; one with qualification preferred, the other a Junior or Improver; please state age, experience reference, when disengaged, salary required (indoors); abstainers preferred; also enclose photo if convenient. "Pharm. Chemists," 25 Westow Hill, Upper Norwood, London, S.E.

OKENGATES.—Wanted, Junior or Improver. Send particulars and salary required, to A. H. Ferriday, The Pharmacy, Oken Gates.

OLDHAM.—Wanted, smart, active Junior (outdoors), about 20, for pushing Retail business; must be quick and reliable, and a good Counterman. Address, stating age, experience, references, and salary required, with photo, to J. & J. Thompson & Co., Lim., 192 Manchester Street, Oldham.

PETERBOROUGH.—Junior Assistant (indoors) wanted. State age, salary expected, when at liberty, and reference, Heanley & Son, Pharmaceutical Chemists, Peterborough.

PRESCOT.—Immediately, smart Improver or Junior, about 19, to live in; excellent opportunity for a young man requiring varied experience; half-holiday almost weekly; good home. Apply, with full particulars, salary, &c., to Thomas H. Williams, Prescott, Lancs.

READING.—Qualified Assistant, for Light Retail and Dispensing; a three months' engagement from April 1; board in and sleep out, bedroom found. Apply, stating usual particulars and salary required, to B. H. Butler, Chemist, Reading.

SEACOMBE.—Wanted, at once, a Junior Assistant or Turnover Apprentice, about 19, in a Light Retail and Dispensing business; time allowed for recreation and attending School of Pharmacy. Apply, stating age, height, and salary expected, with reference, to Hinkley, Seacombe, Liverpool.

SHAFTESBURY.—Wanted at once good Junior Assistant, about 21 or 22 (indoors). Apply, stating age, height, experience and salary, and enclose photo (to be returned), F. Richards, Chemist, Shaftesbury, Dorset.

SOUTHAMPTON.—Wanted, two Junior Assistants (outdoors), one for Dispensing and Counter, the other for Stock and Laboratory; qualified preferred. Bates & Co., Southampton.

SOUTHEND-ON-SEA.—Qualified Assistant; accustomed to a good-class Dispensing business; indoors. Apply, with usual particulars, to F. York, 1 Nelson Terrace, Southend.

SOUTH STAFFORDSHIRE.—Wanted, Branch Manager; South Staffordshire; qualified; live on premises; married; abstainer preferred; must have good references; liberal salary to thoroughly capable man. Apply, "Remedy" (40/28), Office of this Paper.

SOUTHPORT.—Junior Assistant (qualified preferred), for good-class Retail and Dispensing business. State full particulars and salary required (outdoors), Jas. Righton, 293 Lord Street, Southport.

TONBRIDGE.—Wanted, an Assistant for a Country business; hours moderate. Apply, with full particulars, to A. J. Gower, Chemist, Tonbridge, Kent.

WOLVERHAMPTON.—Wanted, an Assistant, for good-class Retail and Dispensing; if with knowledge of the Photographic business preferred, but not essential. Apply, with full particulars, to F. J. Gibson, Chemist, Wolverhampton.

WOLVERHAMPTON.—Indoor Assistant; abstainer; good references required. Apply, with full particulars, to "Chemist," c/o Messrs. Edwards & Sons, York House, High Street, Wolverhampton.

WOOLWICH, S.E.—In a small Retail and Prescribing business, a Junior Assistant, to assist at Branch; willing and industrious; indoors; abstainer preferred. Apply, stating age, salary, height, &c., "Chemist," 33 Church Street, Woolwich, S.E.

WORCESTER.—Outdoor Assistant, for the Dispensing-counter. Apply, with photo, stating age, height, and experience, to E. J. Kitson, The City Drug Stores, Worcester.

DAYS METROPOLITAN DRUG CO. (LIMITED) require an Assistant, not necessarily qualified, for quick Cash business. Write, stating salary required and enclose usual particulars, to 80 Borough Road, London, S.E.

DAYS METROPOLITAN DRUG CO. (LIMITED) have a vacancy for a smart, qualified Assistant, married preferred, for London district; the appointment would be with view to ultimate Managership. Write, giving usual particulars, to 80 Borough Road; personal interview by appointment preferred.

JUNIOR wanted, about 20; indoors; passed Prelim.; give usual particulars as to salary, height, reference; comfortable home; hours about 74. Smart, Littlehampton.

LADY Dispenser, Book-keeper (indoors), by medical man. Address, stating salary, to "Medics," 83 Cecil Street, Manchester.

QUALIFIED Assistant; thoroughly competent to take charge of Dispensing counter in West-end house; three Assistants kept; salary £80. Apply to "Senior" (43/29), Office of this Paper.

SENIOR Dispensing Assistant; Junior Retail Assistant; both must have had first class experience and be qualified. Apply, stating for which situation, and giving full particulars of age, experience, qualification (Minor or Major), reference, and salary required (indoors), with photograph if convenient, to Brady & Martin, 29 Mosley Street, Newcastle-on-Tyne.

SMART, active, qualified men wanted as Managers for Branches; must be good business men and capable of working up a district. Apply, with photo, stating age, experience, and salary required, to George O. Dunsart, 135 Queen's Road, Brighton.

STEADY young man to manage Branch, Mixed Retail trade; outdoors. Send full particulars and references to Jackson, Chemist, St. Helens.

TAYLORS' DRUG CO. (LIMITED) are opening out several new Branches, and have vacancies for smart, qualified Chemists. Apply, with full particulars as to references and salary required, and enclosing photo (if possible), to the Secretary, 3, 5, and 7 Guildford Street, Leeds.

WANTED, an Assistant by Chemist and Dentist in West of England; must have experience in Mechanical Dentistry; view to succession or Partnership. Apply, in first instance, to "Dens" (38/34), Office of this Paper.

WANTED, for March 27, energetic qualified Minor Assistant; indoors; aged about 24; hours 8.30 to 8.30, Saturdays 10.30, alternate Sundays 6.30 to 8.30. Apply, with references, &c., to H. F. Greenough, Chemist, Warrington.

WANTED, a Junior Assistant for General Retail and Dispensing; outdoors. State age, height, and salary required, and enclose photo, J. Marson & Son, Stafford.

WHOLESALE.

DUBLIN.—Hamilton, Long & Co. (Lim.) require an experienced Scientific Analytical Chemist to take charge of their Laboratory. Apply, with references, stating experience, qualifications, and salary expected, to 3 Lower Sackville Street, Dublin.

LONDON.—Wanted, a lad, about 17, accustomed to Pill Rounding and Coating. Apply, General Apothecaries' Company, 49 Berners Street, W.

LONDON.—Invoice Clerk wanted for London Wholesale house; must write a good hand; previous experience of Surgeons' Wholesale preferred. Write, stating age, experience, and salary required, to J. O. (200/15), Office of this Paper.

SCOTLAND.—Assistant, qualified preferred; capable of taking charge of a Laboratory (Scotland); an experienced man will receive every encouragement. Apply, with references, to 34/15, Office of this Paper.

ANALYST.—Required, in the Analytical Department of a large Manufacturing firm near London, a capable Assistant, with experience in examination of Drugs, Chemicals, and Manufactured Pharmaceutical Products, qualitatively and quantitatively. Apply by letter, giving full experience, age, salary required, &c., to D. E. H., c/o T. Dixon's Advertisement Offices, 195 Oxford Street, London, W.

DRUG Travellers, with good Medical connections, can have profitable, non-clashing side-line; sample may be carried in vest pocket; useful novelty; sells easily; handsome commission. State (in confidence) experience, firm represented, and ground covered, to "Utilis" (40/6), Office of this Paper. Silence a polite negative.

FLAVOURING and Soluble Essences.—Wanted, in an old-established Works in the country, an Assistant with practical experience of this branch; none others need apply. State age, experience, and salary required, to "Limited Company" (39/1), Office of this Paper.

PROMINENT Manufacturing Chemists have openings in their Research, Analytical, and Manufacturing Laboratories for well-qualified gentlemen, and are prepared to consider applications. Candidates must furnish full particulars as to age, qualifications, and experience, and state salary required. Address, "Chemist," c/o Messrs. Street & Co., 30 Cornhill, E.C.

SITUATIONS OPEN—cont.

WHOLESALE—continued.

PHARMACEUTICAL Chemist required to undertake the post of Analyst in Wholesale Drug business, and competent to estimate all the usual trade products and pharmaceutical preparations; a young man practically qualified for the above, and willing to pursue experimental work for the requirements of a progressive business, would find a comfortable and probably permanent position; full particulars of general experience should be given which will be received in confidence; please state other usual particulars and approximate salary expected. W. Kemp & Son, Wholesale Druggists, Horncastle. (Endorse letters H. W. Kemp.)

TRAVELLER—Wanted, Traveller on Commission, to call on Wholesale and Retail Chemists, with high class Floral Cachous, Lozenges, and Gums. Apply, X.Y., 35/13, Office of this Paper.

TRAVELLER wanted, by Wholesale and Export Druggists, for West of England and Wales. Apply by letter, giving full particulars as to age, connection, &c., to 44/24, Office of this Paper.

TRAVELLER (London) wanted, who has good connection with Store Chemists, Chemists, Hospitals, and Institutions for the sale of Beef Essence, Home-made Beef Tea, and Invalid Soups, all of British manufacture; salary 20s. per week and 10 per cent. commission; must represent one other house only, and have first-class reference as to character and ability; none other need apply. Address, letters only, Borthwick & Co., 331 Kingsland Road, London, N.

WANTED an energetic young man to Represent a first-class firm in Gelatine and Confectionery Sundries. Address, O. P. Q (200/73), Office of this Paper.

WANTED, an Analytical Chemist, of exceptionally high and proved ability and accuracy, with good experience in testing Medicinal Chemicals to take up the position of Chief Analyst at the works of a leading London firm of Manufacturing Chemists; a gentleman who has taken University degrees preferred. Address, stating age, qualifications, and experience, to "Analyst," c/o Messrs. Markby, Stewart & Co., Solicitors, 57 Coleman Street, London, E.C.

WANTED, Chief Chemist and Manager of Works, by a leading London firm of Manufacturing Chemists, employing several hundred people. The qualifications necessary for the position are high and well-grounded scientific knowledge and attainments; good practical experience in carrying out Manufacturing Processes; exceptional powers of organisation and administration, tact, good judgment; capability to direct and control scientific workers engaged in the manufacture of Fine Medicinal Chemicals and Pharmaceutical Products; a gentleman with University training and degrees preferred; the position commands a liberal salary; replies will be treated in the strictest confidence, if so desired. Address, stating age, qualifications, and experience, to "Manager," c/o Messrs. Markby, Stewart & Co., 57 Coleman Street, London.

WHOLESALE—Assistant wanted for the Dry Counter; one with Export experience preferred. State age, experience, and salary required to "Cortex" (193/59), Office of this Paper.

APPRENTICESHIPS.

LIVERPOOL—Apprentice wanted, outdoors preferred, in high-class Dispensing and Family Retail. Particulars on application to R. Stockdale, The Pharmacy, Blundellsands, Liverpool.

SITUATIONS WANTED

1s. for 12 words or less; 6d. for every 6 words beyond.

RETAIL.

SHORT Part-time; 21; 5 years' experience. 732 Old Kent Road, London.

JUNIOR; 23; tall; near London preferred. "Radix," 18 Colville Place, W.

QUALIFIED (30); outdoors, or Branch with house. 44/17, Office of this Paper.

LOCUM or Branch Manager; qualified. "Chemist," 40 Eccleston Road, Ealing, W.

JUNIOR; 21; 5 years' experience (outdoors). Graig, Llanfyrnach, R.S.O., Pembrokeshire.

MANAGER. Locum, or Senior; highest references; 41. "Extractor," 11 Bute Street, Cardiff.

ASSISTANT; 12 years' good experience; outdoors preferred. S., 5 East Street, Dorchester.

ASSISTANT; 24; tall; good Store experience; outdoors. "Alpha" (40/16), Office of this Paper.

DISPENSER: Dispensary, Doctor, or Manage small Retail. G., 99 Harringay Road, Harringay.

QUALIFIED: West-end experience; London preferred. Ullett, 3 West Kensington Terrace, W.

LOCUM: qualified; abstainer; disengaged March 2. H. Boden, 102 Piltou Street, Barnstable.

JUNIOR; 19; good Dispenser; Manchester preferred; time for study. Williams, Troscymae, Holywell.

MANAGER or Traveller; 35; qualified; married. Jeffery, 56 Maryon Road, Charlton, S.E.

ASSISTANT; competent to take charge; highest references; disengaged. 41/1, Office of this Paper.

MANAGER or Assistant; qualified; 4½ years last situation. Weaving, Fyfield Wick, Abingdon.

ASSISTANT; 23; good experience; disengaged. "Senna," 61 Mossbury Road, Clapham Junction, S.W.

INDIA or Colony; qualified Assistant; good experience. Davies, 68 Marquess Road, Cannoubury, London.

PART-TIME (evening), Dispensing; S.E. preferred; Extractor. 100 Richmond Road, Earl's Court, S.W.

QUALIFIED; Branch Manager or Stores; 30; disengaged. Fernough, Church Drive, Daybrook, Notts.

JUNIOR: good Dispenser; 22; London; disengaged April 6. State hours, salary, &c., 39/6, Office of this Paper.

ASSISTANT, Locum, or Branch Manager; unqualified; permaucency preferred. Geo. Reed, Earby, Yorkshire.

MANAGER. Locum or Senior; outdoors; good experience. "Chemist," 7 Cary Road, Leytonstone, N.E.

ASSISTANT; aged 23; height 5 ft. 9 in.; abstainer; excellent references. W. Field, Woodgreen, Witney, Oxon.

JUNIOR; 21; disengaged at end of March; Drug-store experience. Law, c/o Mayor (Lim.) Old Square, Birmingham.

QUALIFIED; 28; 12 years' experience, including Store; outdoors. "Minor," Mrs. Wilkie, 25 Oswald Street, Blackburn.

AS Junior, in good-class business, where two are kept; disengaged March 13. W., 89 Portland Road, Notting Hill Gate.

MANAGER or Assistant; 12 years' experience; married; 28; permaucency desired. R., 38 Hindman's Road, E. Dulwich.

AFTER Easter; as Assistant with view to purchase; must be good-class business. "Magnesia" (41/31), Office of this Paper.

LOCUM; disengaged; qualified; 31; varied experience; by hour, day, or week. Wire, "Chemist," 286 High Holborn, W.C.

MANAGER (or Assistant); disengaged; Minor; London experience; good Retail and Store. Apply, 44/16, Office of this Paper.

PART-TIME, with facilities for study; City or West; previous London experience. "Junior" (42/14), Office of this Paper.

DISPENSER to Surgeon; whole or part day; moderate salary; good reference. Evans, 36 Patshull Road, Kentish Town, London.

JUNIOR; 21; 5 years' experience; outdoors; abstainer; 5 ft. 8 in.; disengaged March 31. "Confidante" (42/9), Office of this Paper.

JUNIOR; 21; 5 years' (including London) experience; London preferred; disengaged March 13. Page, 126 Upper Street, Islington.

PART-TIME; disengaged all day or part of day, or every evening; Chemist or Surgery. "Gentian," 113 Great College Street, N.W.

MANAGER or Locum; qualified; 54; outdoors; could invest small amount of capital. A. B., Post office, Dowus Road, Clapton, N.

MANAGER: Prescriber and Extractor; good salesman and counter-man. Address, "Manager," 16 South Hunter Street, Liverpool.

LADY (experienced) requires situation as Bookkeeper to Doctor; knowledge of Dispensing. "Renraw" (42/28), Office of this Paper.

OUTDOORS; Manager; Assistant; Prescriber; Dispenser; knowledge Photography; age 34. "Statim," 105 Kensington, Liverpool.

LADY-DISPENSER; Apothecaries' Hall Certificate; Doctor, Institution, Voyage. Moore, 50 Bullingham Mansions, Kensington, London.

JUNIOR (London); 5 years' country and London experience; good references. Keen, West Rock, Warwick.

LONDON—Part-time engagement; Junior; accustomed to good-class trade; aged 25; disengaged. Lewis, Chemist, Ton-Pentre, Glamorgan.

PHOTOGRAPHIC TRADE—As Manager; 12 years' experience with Photographic Chemist; age 27. Heeler, 16 Whitefriargate, Hull.

MANAGER: disengaged; aged 32; many years' London experience, also country; highest references. "Rhei," 4 Osorio Place, Russell Square, W.C.

IMMEDIATE; Junior (21), in good-class Retail and Dispensing business; Manchester district preferred. "Statim," c/o Rogers, Chemist, Altrincham.

LOCUM; qualified; London and Provincial experience; good Extractor, Prescriber, Dispenser; disengaged. "Forcops" (41/6), Office of this Paper.

BRANCH Manager or Assistant; qualified; 28; unmarried; abstainer; town and country experience. "Salicin" (38/37), Office of this Paper.

MANAGER, Assistant, or Dispenser; qualified, experienced; nominal salary, light duties; disengaged. "Minor," 10 Clarence Place, Docks, Cardiff.

LONDON; part-time or short hours engagement; good Dispensing experience; 24; disengaged. W. Barrett, Hingstone House, Cornwood, Ivybridge.

YOUTH (19), tall, good appearance, desires situation as Improver in Stores or Warehouse; 2 years' reference. "Improver," 71 Laitwood Road, Balham, S.W.

MANAGER, Branch or otherwise; qualified; good all-round experience; live on the premises preferred. Address, "Fides" (38/15), Office of this Paper.

ASSISTANT; 22; 6 ft.; 6 years' experience; disengaged in three weeks; good references; large town preferred; no stores. Blaydes, 59 High Street, Aldershot.

24; MINOR; good experience; Retail; a situation with view to succession in about 18 months; good references. Buchu, (34/29), Office of this Paper.

JUNIOR (scotchman), 21, 7 years' experience, 2 years' first-class London, desires engagement, Edinburgh or Glasgow. Adamson, 1 Claremont Road, Surbiton, S.W.

MANAGER; Assistant; steady, energetic, obliging; varied experience; 7 years present firm, different towns; Store, &c. "Drugs," 80 Landcroft Road, East Dulwich, London, S.E.

ADVERTISER seeks position, Manager, Assistant, or Temporary; lately sold own business; undeniable references for years past; aged 45. Address, "Statim," 79 High Street, Plaistow.

WHOLESALE.

CLERK; experienced in all branches; disengaged; moderate salary. 44/1, Office of this Paper.

ACHEMIST is willing to represent Provincial Drug House in London. 44/25, Office of this Paper.

TRAVELLER; qualified; good all-round knowledge, appearance, and address. "Foremost" (41/7), Office of this Paper.

EXPERIENCED Clerk requires responsible position; knows business thoroughly. 40/30, Office of this Paper.

SITUATION required by young man as Clerk (20); experienced; moderate salary. 27 Dover Street, West Hartlepool.

WHOLESALE; situation wanted as Dry Counter man; experience; good references. "Chemist," 16 King Street, N.W.

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MISCELLANEOUS.

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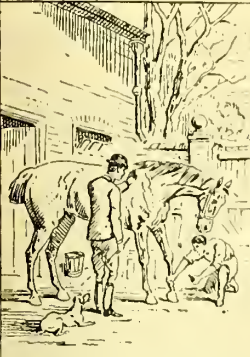


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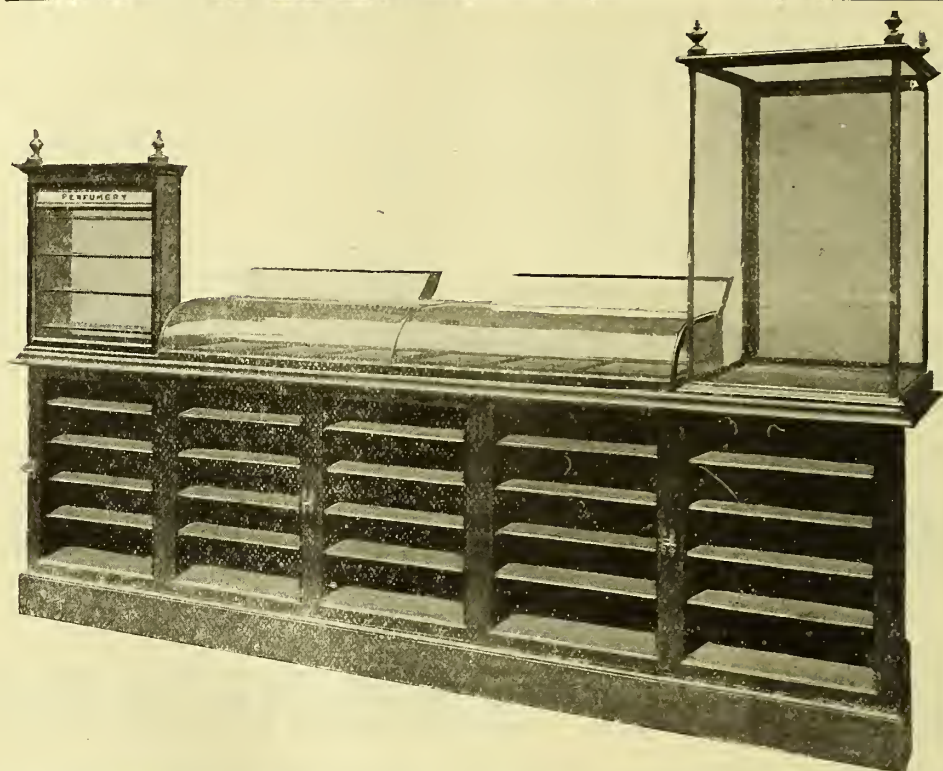
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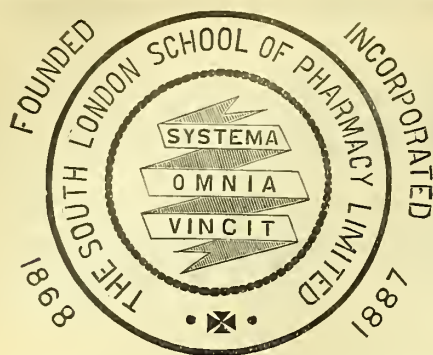
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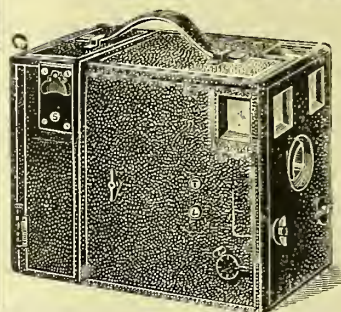
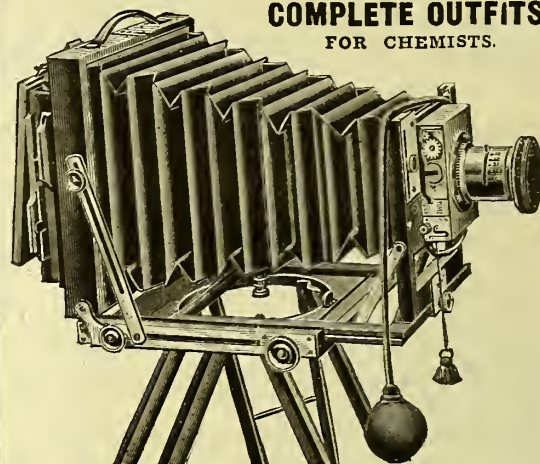
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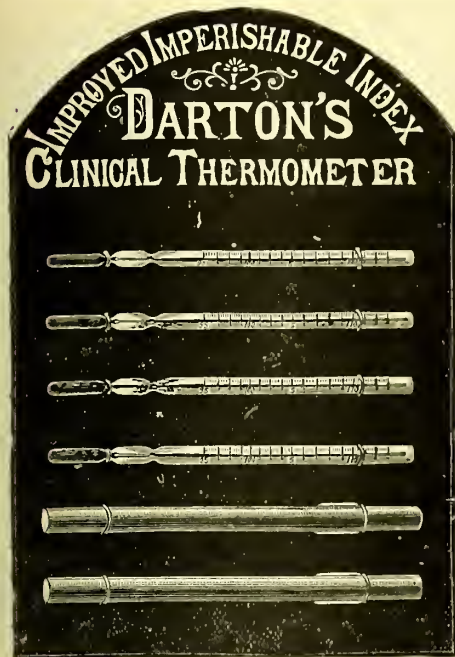
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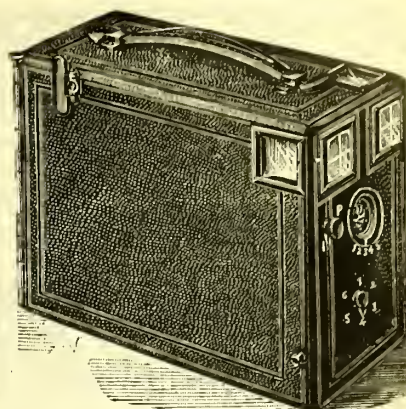
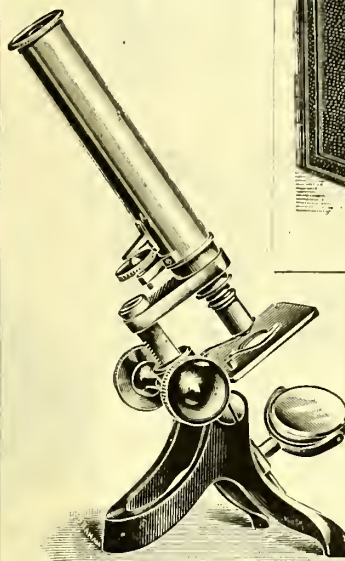
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"Yours truly, E. B. OWEN."

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Chatham, February, 1899.
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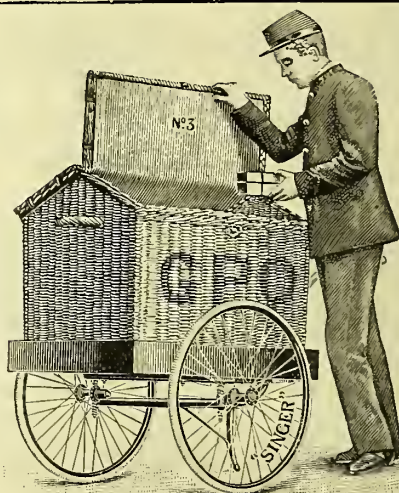
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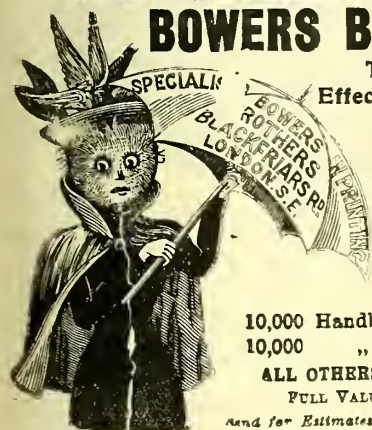
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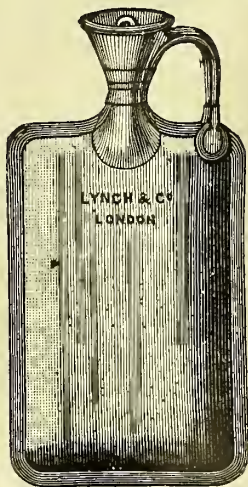
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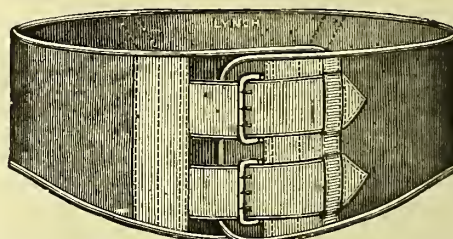


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Woolley, Sons & Co.**ESSENTIAL OILS**Allen, S., & Sons
Barnett & Foster
Bush, W. J., & Co.
Essential Oil Importers and Exporters, Lim.
Evans, Sons & Co.
Jakson, J., & Co.
Jeancard, Gazan & Doumain
London Essence Co.
May & Baker, Lim.
Poppelreuter, W.
Ransom, Wm., & Sons
Sanitas Co., Lim.
Sozio & Andrioli
Spurway & Cle.
Stevenson, H. E., & Co.
Stevenson & Howell
Treat, R. C. | Warrick Bros.
Wilkinson & Simpson, Lim.
Wright, Layman & Umney**ETHER**Duncan, Flockhart & Co.
Howards & Sons
Macfarlan, J. F., & Co.
May & Baker, Lim.
Tyler, T., & Co.
White, A., & Sons
Wright, Layman & Umney**EUCALYPTUS OIL**Drysdale, J. W., & Co.
Sanitas Co., Lim.
Sharlad & Co.
Tasmanian Eucalyptus Oil Co.**EXTRACT MEAT**Armour & Co. | Brand & Co.
Beaufay, C.
Liebig Co.**EXTRACTS, FLUID**Allen & Hanbury
Allen, G., & Co.
Bleasdale & Co., Lim.
Burgoyne, Burbridges & Co.
Evans, Sons & Co.
Fletcher, Fletcher & Co.
Heaton, Squire & Francis
Lloyd, T. Howard, & Co.
Parke, Davis & Co.
Potter & Clarke
Ransom, W., & Son
Wilkinson & Simpson, Lim.
Wright, Layman & Umney**EXTRACTS, SOLID**Allen, G., & Co.
Ransom, W., & Son**EXTRACTS, VEGTBLE.**

Fromms Extract Co.

FEEDING BOTTLESBarclay & Sons, Lim.
Evans, Sons & Co.
Gibbertson, H., & Sons
Hovenden & Sons
Kilner Bros.
Lynch & Co., Lim.
Marriott, E., & Co.
Maw, S., Son, & Thompson
May, Roberts & Co.
Youldon, E.**FILTERS**Berkfeld Filter Co., Lim.
Mawson Filter Co.**FLY CATCHERS**Alabastine Co. (British), Lim.
Ford, Shapland & Co.
Marshall's, Lim.
Mather, W., Lim.
Smith, J. H., & Co.
Strong, Chrissy
Tunbridge & Wright**FOOD (Infants' & Invalids')**Allen & Hanbury
Beanes, E., & Co.
Benger's Food
Bleasdale & Co., Lim.
Bovril, Lim. | Braud & Co.
Burgoyne, Burbridges & Co.
Coca's Flour Co., Lim.
Frane Food Co.
Fromms Extract Co.
Goodall, Backhouse & Co.
Heaton, Squire & Francis
Liebig Co.
Mellin's Food
Milk Wine Co., Lim.
Nestlé, H.
Savory & Moore
Vi-Cocoe (Dr. Tibbles')**FOOD (for Plants)**

Sharon Chemical Co., Lim.

GELATINES

Meggett, S., & Sons, Lim.

GLUEBarclay & Sons, Lim.
Brauer, A.**GLYCERINE**Haller, G., & Co.
Price's Candie Co., Lim.**GRANULAR PREP.**Bishop, A., & Sons
Evans, Gadd & Co.
Evans, Sons & Co.
Heaton, Squire & Francis
Lloyd, T. Howard & Co.
Lothhouse & Saltmer
Tyler, T., & Co., Lim.
Wright, Layman & Umney**HAIR PREP.**Alexandre (Shadelne)
Brooks, Tom
Cheesbrough Co.
Edwards & Co.
Thiellay, E. H.**HERB BEER EXTS.**Newball & Mason
Potter & Clarke**HOMOEOPATHIC**Epps, J., & Co.
Leath & Ross
Munyon's Remedies
Watson & Wates**HYPOPHOSPHITES**Duncan, Flockhart & Co.
Fellows
Fletcher, Fletcher & Co.
Tyler, T., & Co., Lim.**INHALERS**Krone & Seemann
Lynch & Co., Lim.**INSECTICIDES**Bleasdale, Lim.
Fleming's Oil & Chemical Co.
Lim.
Jackson, T.
Tunbridge & Wright**LAVENDER WATER**Jakson, J., & Co.
Sainsbury, B.**LEMON PEEL, &c.**Southwell, C., & Co.
Toomey, J.**LINT**Burgoyne, Burbridges & Co.
Christy, T.
Liverpool Lint Co.
Maw, S., Son, & Thompson
Newsome, C.
Robinson & Sons
Wood, Vincent**LIQUORICE**Dunhill & Co.
Evans, Gray & Hood ("Solazz")
Evans, Sons & Co. (Savarin)
Hillabys, J.
Jeancard, Gazan & Doumain**LIQUORS**Fletcher, Fletcher & Co.
Lloyd, T. Howard, & Co.
Oppenheimer, Son & Co., Lim.
Stevenson, H. E., & Co.**LOOFAHS**

Solport Bros.

LOZENGESAllen & Hanbury
Denoual, J.
Gibson, R., & Sons (Manfrs.)
Guest, T., & Co., Lim.
Jackson, T.
Raines & Co.
Warrick Bros.**LUNG PRESERVERS**

Zimmer & Co.

MACHINERYBennett, Sons & Shears, Lim.
Bera, R.
Fox, Fultz & Co.
Gardner, W., & Sons
Hatrack, J. L., & Co., Lim.
Melin, G.
Newman, W. | Pindar, J. W.
Werner, Pfleiderer & Perkins, Lim.**MAGNESIA**American Magnesia Co.
Bishop, A., & Sons, Lim.
Bleasdale, W., & Co.
Henry, T. & W. (Calcedin)
Lloyd, T. Howard, & Co.
Washington Chemical Co.**MALT EXTRACT, &c.**Allen & Hanbury
Burroughs, Wellcome & Co.
(Kieper's)
Distilleries Co., Lim.
Heaton, Squire & Francis
Parke, Davis & Co.
Price's Patent Candle Co., Ld.
Raines & Co.
Raines, Clark & Co.
Robinson & Co.**MARKING INKS**

John Bond's Crystals Palace

MEDICINE CHESTSBurroughs, Wellcome & Co.
Day, Son & Hewitt (Veterinary)
Day & Sons (Veterinary)**MERCURIALS**Howards & Sons
May & Baker, Lim.
Tyler, T., & Co., Lim.**METH. SPIRIT, &c.**Boord & Son | Burroughs, J.
Jones & Co. | Phillips, G., & Co.**MICROSCOPES**Darion, L. F., & Co.
Ross, Lim.**MORPHIA**Macfarlan, J. F., & Co.
Smith, T. H., & Co.**MILK**Hawkesley, T. (Sterilizer)
Nestlé, H. (Condensed)
Lumley, L., & Co. (Sterilized)
Boehm, Fredk.
Boehring, C. F., & Sohns
Burgoyne, Burbridges & Co.
Burroughs, Wellcome & Co.
Davies, Gibbins & Co.
Duncan, Flockhart & Co.
Evans, Gadd & Co.
Evans, Lescher & Webb
Evans, Sons & Co.
Fairchild Bros. & Foster
Fertis & Co.
Fletcher, Fletcher & Co.
Fortuna Hematogen
Heaton, Squire & Francis
Hewlett & Son
Hoffmann, La Roche & Co.
Howards & Sons
Lageman, C.
Lothhouse & Saltmer
Macfarlan, J. F., & Co.
Mackay, Mackay & Co.
Martindale, W.
May & Baker, Lim.
Oppenheimer, Son & Co.
Parke, Davis & Co.
Potter & Clarke
Smith, T. H., & Co.
Smith, W. E., & Co.
Squire & Sons
Stern Bros.
Stevenson, H. E., & Co.
Tyler, T., & Co.
"Vasogen"**OINTMENT BASES, &c.**Burroughs, Wellcome & Co.
(Lanoline)
Cheesbrough Co. (Vaseline)
Cooper & Co.
Lloyd, T. Howard, & Co.
Stevenson, H. E., & Co.
Thierry, A.**OXIDE OF ZINC**Hubbuck, T., & Son, Lim.
Stevenson, H. E., & Co.**PALATINOLIDS**

Oppenheimer, Son & Co., Lim.

PATENT AGENTS

Barker, Reginald W.

PATENT MEDCNS, &c.Anglo-American Drug Co., Ld.
Barclay & Sons, Lim.
Beecham, T. (Pills)
Benedictine Salve
Clarke's Blood Mixture
"Daisy" Headache Powders
Edwards & Son
Evans, Lescher & Webb
Evans, Sons & Co.
Fanning (Powders)
Goodall, Backhouse & Co.
Guy's Tonic
Holloway (Pills and Oint.)
Hovenden & Sons
C. Legeman, C.
Lator (Phosphoryne, &c.)
May, Roberts & Co.
Nicolas & Co.
Post, A. M., Lim.
Powell, Thomas, Lim.
Richards, J. M.
Thierry, A. (Balsam and Ointment)
Vogeler, Chas. A., Co.**PENS**

Jewel Pen Co.

PEPPERMINT OILSBush, W. J., & Co.
Jakson, J., & Co.
Ransom, W., & Son
Stevenson & Howell**PEPSIN, &c.**Armour & Co.
Burroughs, Wellcome & Co.
Cerebos Limited (Pepsalla)
Fairchild Bros. & Foster
Newbery, F., & Sons (Ingluvin)
Parke, Davis & Co.
Stevenson, H. E., & Co.**PERFUMERY, FANCY SOAPS**Allen & Hanbury, Lim.
Ayrton & Saunders
Barclay & Sons, Lim.
Bleasdale, Lim.
Blondeau & Sie. | Boehm, F.
Brooks, Tom
Burgoyne, Burbridges & Co.
Burroughs, Wellcome & Co.
Bush, W. J., & Co.
Carmichael & Sons
Cheesbrough Co.
Cook, E., & Co.
Corbyn, Stacey & Co.
Evans, Sons & Co.
Farina, J. M.
Greiff, R. W., & Co.
Hovenden & Sons
Jakson, J., & Co. | Lanoline
London Essence Co.
Lynch & Co., Lim.
Marshall's, Lim.
Mason, C. E., & Co.
Newbery, F., & Sons (Berdoes)
Pears, A. & F., Lim.
Potter & Clarke (Sachets)
Roberts & Sheppey
Sainsbury, B.
Sanger, J., & Sons
Schutze, F., & Co. | Co., Lim.
Sharp Bros. Soap & Perfumery
Sinclair, Jas., & Son
Tidman & Son | Treatt, R. C.
Van Oppen & Co.
Vigo, Jules, & Co. (Lima)
West, T. (Oakall's Moma)
Wilkinson & Co.
Wright, Layman & Umney**PEROX. OF HYDR.**May & Baker, Lim.
Robins & Co.
Sanitas Co., Lim.
Tyler, T., & Co., Lim.**PESSARIES**

Rendell, W. J.

PTREUM JELLY, &c.Allen & Hanbury
Christy, T., & Co.
Dre Oil Co., Lim.
Haller, G., & Co.
Snowdon, Sons & Co. (Ld. Jelly)
Stern Bros.**PILL MACHINES**Bennett, Sons & Shears
Pindar, J. W.**PHARM. PREPS.**Allen & Hanbury
Armour & Co. | Bales Bros.
Barn, Harveys & Co.
Boehm, Fredk.
Boehring, C. F., & Sohns
Burgoyne, Burbridges & Co.
Burroughs, Wellcome & Co.
Davies, Gibbins & Co.
Duncan, Flockhart & Co.
Evans, Gadd & Co.
Evans, Lescher & Webb
Evans, Sons & Co.
Fairchild Bros. & Foster
Fertis & Co.
Fletcher, Fletcher & Co.
Fortuna Hematogen
Heaton, Squire & Francis
Hewlett & Son
Hoffmann, La Roche & Co.
Howards & Sons
Lageman, C.
Lothhouse & Saltmer
Macfarlan, J. F., & Co.
Mackay, Mackay & Co.
Martindale, W.
May & Baker, Lim.
Oppenheimer, Son & Co.
Parke, Davis & Co.
Potter & Clarke
Smith, T. H., & Co.
Smith, W. E., & Co.
Squire & Sons
Stern Bros.
Stevenson, H. E., & Co.
Tyler, T., & Co.
"Vasogen"**PHOTOGRAPHIC**

X RAY, &c.

Barclay & Sons, Lim.
Boehm, Fredk.
Burroughs, Wellcome & Co.
Butcher, W., & Son
Cadett & Neall, Lim.
Darton, F., & Co.
Edwards, T., & Co.
Higgins, C. M., & Co.
Houghton, G., & Sons
Lockyer, J. E.
Lowe, B., & Co.
Mackay, Mackay & Co.
Raphael, J., & Co.
Ross, Lim.
Shaw, J. F., & Co.
Thornton-Pickard Co., Lim.
Tyler, T., & Co.
White, Alfred, & Sons
Woolley, J., Sons & Co.**PILLS, Coated, &c.**Allen & Hanbury, Lim.
Beecham, Thomas
Bleasdale & Co., Lim.
Cox, Arthur H., & Co.
Davies, Gibbins & Co.
Davy, Hill & Son, Yates & Hicks
Duncan, Flockhart & Co.
Evans, Gadd & Co.
Heaton, Squire & Francis
Holloway, Professor
Kearsley, C. & G.
Lloyd, T. Howard, & Co.
McKesson, C. & Robbins
Parke, Davis & Co.
Powell, Thomas, Lim.
Scottish Sugar-coated Pill Co.
Scott's, Dr.
Ward, S. (Pearl Coated)
Warner, W. R., & Co. (Coated).
Wyley's, Lim.**PLASTERS**Cheesbrough Mfg. Co.
De St. Dalmaz, A.
Evans, Sons & Co.
Seabury & Johnson
Solport Bros. (Gart)
Tidman, J. & Co.**POLISHING**Benjamin, H. S.
Bradley & Bonndas (Albatum)
Fordham, W. B., & Sons, Lim.
Oakley, J., & Sons, Lim.
Raines & Co. (Stockton)**PRINTING**Blake & Mackenzie
Bowers Bros.
Corsan, J. R. (Glass)
Ford, Shapland & Co.
Gilbert & Rivington, Lim.
Harrison & Waide
Silverlock, H.
Thomas & Co.
Townsend, J.**QUININE**Boehring, C. F., & Sohns
Howards & Sons
Imperial Quinine Co.
Smith, S., & Co. (Wine)
Zimmer & Co.**RENNET**Duncan, Flockhart & Co.
Tomlinson & Hayward**RESPIRATORS**

Solport Bros.

RUBBER STAMPSBond, J. (Crystal Palace)
Richford, E. M.**SACCHARIN**Anglo-Continental Chemical
Works, Ltd.
Saccharin Corporation, Lim.**SALICIN**Macfarlan & Co.
Smith, T. H., & Co.

SAUCES, PICKLES

Goodall Backhouse & Co.

SCHOOLS, &c.

Central (Edinburgh)
Davis, F.
Glasgow and West of Scotland
School (T. S. Barrie)
Goldsmiths' Institute
Gordon's (Robt.) School
Laurance, L. (Optical)
Leeds College of Pharmacy
Liverpool School
Manchester Col. of Pharmacy
Metropolitan Col. of Pharmacy
North of England School
Northern College of Pharmacy
Royal Dispensary (Edinburgh)
South London School of
Pharmacy, Lim.
Westminster College

SEA SALT

Tidman & Son, Lim.

SEEDSMaooneen, J.
Potter & Clarke**SEIDLITZ POWDERS**Hors & Co. | May, Roberts & Co.
Wilkinson & Co.**SELTZOGENES**

May, Roberts & Co.

SERUM

Greiff, R. W., & Co.

SHAVINGHovenden & Sons (Exeels)
Lloyd, A., & Co. (A. S. Lloyd's
Exeels)**SHEEP DIP**Fletcher Bros. & Co.
Jeyes' Sanitary Compounds Co.
Sanitas Co., Lim.**SHOP FITTERS**

Alstrom, C.
Ayrton & Saunders
Bowling & Govier
Bygrave, F. E. & W.
Ellison, F. E., & Co.
Evans, Sons & Co.
Josephs, Philip, & Son
Maw, S., Son & Thompson
Mitchell, A.
Parnall & Sons, Lim.
Treble, G., & Son
Yates, W. S.

SIZE

Meggett, S., & Sons, Lim.

STARCHCritchley, T. (Gloss)
Hebden, W. C. (Gloss)**SOAP**

Allen & Hanburys, Lim.
Ayrton & Saunders
Beetham, T., & Son
Bronnley, H., & Co.
Calvert, F. C., & Co.
Cook, E., & Co.
Cooper & Co.
Crosfield, J., & Sons, Lim.
Gibbs, D. W. (Medicated)
Hydroxene Co.
Jeyes' Sanitary Compounds Co.
Mackenzie's, Dr. (Arsenical)
Maypole Soap Co., Lim.
Peacock's Ovaline Soap Co.,
Lim.
Pearce, A. & F., Lim.
Sanitas Co., Lim.
Sharon Chemical Co., Lim.
Sharp Bros. Soap, &c., Co., Ld.
Sinclair, J., & Son
Tidman & Son
Vinolia Co., Lim.
Wright, Layman & Umney

SPECTACLES, &c.

Dartton, F., & Co.
Laurance, L.
Raphael, J., & Co.
Worshipful Company of Spec-
tacle Makers

SPONGES

Cohen, I. & M.
Cresswell Bros. & Schmitts
Peterson, M., & Co.

STOVES

Clark, S., & Co., Lim.

SUGAR

Macde & Sons

SURGICAL

Balley, W. H., & Son
Barclay & Sons, Lim.
Burgoyne, Burdidge & Co.
Domen Bels Co.
Eschmann Bros. & Walsh
Ferris & Co.
Galen Manufactory Co., Lim.
Hatrack, J. L., & Co., Lim.
Haywood, J. H.
Krohn & Sesemann
Liverpool Patent Lint Co.
Lynch & Co., Lim.
Macfarlan, J. F., & Co.
Manson, R.
Matto, Lim.
Maw, S., Son & Thompson
Oppenheimer, Son & Co., Lim.
Powell & Barstow
Quelch, H. C.
Robinson & Sons
Schutze, F., & Co.
Wilkinson & Co.
Wood, Vincent
Woodruff, T.

STOPPERS

Austin & Co. (Sprinklers)
Barnett & Foster | Melin, C.
Patent Stopper, Box, and
Stamping Co., Lim.
Stipendum Stopper Co., Lim.

SYPHONS

Barnett & Foster
British Syphon Co.
Chemists Aerated and Mineral
Waters Association, Lim.
Gerat, E., & Co.
Jidis & Co., Lim.
Kilner Bros. | Melin, C.

SYRUPS

Beckett, W., Sons & Co.
Fletcher, Fletcher & Co.
(Liquors)
Stevenson & Howell

TABLETS

Corsan, J. R. (Advertising)
Lambert, A., & Co.
Roberts & Sheppy

TEA

Thomas & Co.
Tower Tea, Lim.

TEETHING PADS

Barclay & Sons, Lim.
Marriott, E., & Co.

THERMOMETERS

Ayrton & Saunders
Bailey, W. H., & Son
Dartton, F., & Co.
Denton, S. G.
Pastorelli & Rapkin
Peroni, A.
Wilkinson & Co.

TINCTURES

Evans, Sons & Co.
Hewlett, C. J., & Son
Lloyd, T. Howard, & Co.
Parke, Davis & Co.
Wyleys, Lim.

TOBACCO & CIGARS

Barclay & Sons, Lim.
Bingleton & Cole, Lim.

TOOTH PASTE

Beecham, T.
Jewsbury & Brown
Maw, S., Son & Thompson
Parke, Davis & Co.
Sutton, O., & Co.
Woods, M. (Arco)

TRADE MARK AGENTS

Barker, Reginald W.

VACCINATION

Maw, S., Son & Thompson
Vaccine Association (Lymph)

TOILET

Allen & Hanburys, Lim.
Ayrton & Saunders
Barker, F., & Son
Beetham & Son
Burroughs, Wellcome & Co.
(Lanoline)
Crosfield, J., & Sons, Lim.
Dee Oil Co., Lim.
Hovenden & Sons
Lynch & Co., Lim.
Major & Co., Lim.
Marshall's, Lim.
Maw, S., Son & Thompson
Peacock's Ovaline Soap Co.,
Lim.
Quelch, H. C.
Sanitas Co., Lim.
Sharon Chemical Co., Lim.
Sharp Bros. Soap & Perfumery
Co., Lim.
Solport Bros.
Southall Bros. & Barclay
Squire & Sons
Tidman & Son, Lim.
Townsend, J. (Paper)
Vinolia Co., Lim.

TYPEWRITERS

Bemington Standard

VALUERS AND**TRANSFER AGENTS**

Berdee & Co. | Brett, F. J.
Judd & Manners
Orridge & Co.
Tomlinson, Thos., & Son

VANILLA

Pavia, F.

VARNISHES, &c.

Brown, W., Sons & Co.

VASELINE

Chesebrough Co.

VETERINARY

Bird & Storey
Chambers, J. F.
Day & Sons
Day, Son & Hewitt
Dobson, G.
Elliman, Sons & Co.
Harvey & Co.
John, A., & Co.
Leng, A., & Co.
Lloyd, T. Howard, & Co.
Sanitas Co., Ld | Spratt's (Dogs)
Walker, Troks & Co.

VINEGAR

Beaufoy & Co.
Grimble & Co.

VINOLIA Superfatted

Vinolia Co., Lim.

WEED KILLER

Acme Chemical Co., Lim.
Fletcher Bros. & Co.
North of Ireland Chemical Co.
Sanitas Co., Lim.
Tomlinson & Hayward

**WHOLESALE & EXPT
DRUGGISTS**

Allen & Hanburys
Allen, S., & Son | Bales Bro
Barron, Harveys & Co.
Bleasdale & Co., Lim.
Burgoyne, Burdidge & Co.
Bush, W. J., & Co.
Corbyn, Stacey & Co.
Davies, Gibbins & Co.
Davy, Hill & Son, Yates & Hicks
Evans, Gadd & Co.
Evans, Sons & Co.
Evans, Lescher & Webb
Farris & Co. | Graf, F.
Goodall, Backhouse & Co.
Harker, Stagg & Morgan
Hearon, Squire & Franols
Hewlett & Son
Kemp, Wm., & Son
Lloyd, T. Howard, & Co.
Lofthouse & Saltmer
London Essence Co.
Macfarlan, J. F., & Co.
Potter & Clarke
Raines & Co.
Raines, Clark & Co.
Smith, B. A., & Co.
Stevenson, H. E., & Co.
Taylor & Colledge
Willows, Francis, Butler &
Ayscough Thompson
Woolley, Jas., Sons & Co.
Wright, Layman & Umney
Wyleys, Lim.

WINES, SPIRITS,**BEER, &c**

Beaufoy & Co.
Bowen & McKechnie
Burrough, J.
Clark, J.
Coleman & Co., Lim.
French Hygienic Society
Goodall, Backhouse & Co.
Holloway's Wine Co., Lim.
Millar, A., & Co. (Orange)
Phillips, G., & Co.
Robinson, B. (Orange)
Smith, S., & Co., Lim. (Orange)
Stevenson, H. E., & Co.
Symons, J., & Co., Lim.
Wilcox & Co., Lim.
Wright, Layman & Umney
Wyleys, Lim.



A Record Year.

During the past year, according to the Report recently laid before the Shareholders at the General Meeting of BOVRIL, LIMITED, the sales of Bovril reached a figure eclipsing all previous returns.

Enterprising Grocers who wish to continue to reap the benefits accruing from this rapidly increasing public support are hereby apprised that the advertising of Bovril will be continued throughout the usual winter season on the most liberal lines; a still further increase in the public demand may therefore be confidently anticipated.

BOVRIL, LIMITED, ^{Food} Specialists, **30 Farringdon St., LONDON, E.C.**

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IDRIS

Royal Table Waters.

AS SUPPLIED TO THE QUEEN.

Sample Case Free to Chemists.

Handsome Advertisement Tablets and
Circulars given to Customers.

SEND FOR PRICE LIST.

IDRIS & CO., Ltd.
Camden Town,
LONDON, N.W.

Branch Factories at
SOUTHAMPTON & LIVERPOOL.

L'EAU D'OREZZA.

This remarkably fine Tonic Mineral Water issues from a spring 1,968 feet above sea level at Orezza, in the Island of Corsica.

It was known and used in France during the last century, but came prominently under the notice of the Medical Profession in that country in the year 1853 through a report published by the Academy of Medicine of Paris of an analysis by a renowned Professor of Chemistry, Dr. Poggiale, confirmed by Mons. Ossian Henri.

Since then the water has been extensively used in France and her Colonies and in Egypt and South America, as well as in Spain and other European countries, and is considered to be the best of all Mineral Waters in cases of Anæmia, Chlorosis, Leucorrhœa, and all diseases arising from impoverishment of the blood, and has been found of the utmost value in Gastralgia, Dyspepsia, and affections of the Liver and Spleen caused by residence in tropical climates, and in Debility after long illness, and in Intermittent Fever.

It is certified to contain :—

IRON, Carbonate and Protoxide.
SODIUM, Carbonate.

MAGNESIUM, Carbonate.
CALCIUM, Carbonate.

POTASSIUM, Chloride.
SODIUM, Chloride.

Traces of Manganese and Arsenious Acid, and has sufficient "free" Carbonic Acid to cause it to effervesce on being poured into a tumbler.

It is the most palatable and digestible of all strong ferruginous waters, and with the addition of a little Lime Juice or Lemon Syrup makes a pleasant table beverage.

Wholesale Orders for France and her Colonies to be sent to :—3 RUE ROSSINI, PARIS,

And Orders for all other Countries to be sent to

MARK WHITWILL, SON & JUDGE,
6 ST. HELEN'S PLACE, LONDON.

KINMOND'S

ROYAL LEAMINGTON

TABLE WATERS

Were first supplied to
H.M. the Queen in 1858, and to
H.R.H. the Prince of Wales in 1862.

UNRIVALLED for PURITY and QUALITY.

IN ORDINARY BOTTLES AND SYPHONS

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LEAMINGTON.

Send for Trade List and Compare Prices.

CONCENTRATED SOLUBLE ESSENCE OF LEMON

FOR

Aerated Waters, Cordials, Syrups, &c.

Our position as Importers of large quantities of Lemons enables us to select fruit coming from districts that we have found from experience will produce the best results. We are, therefore, enabled to make a Superfine Essence of uniform character, which retains as nearly as possible the natural flavour and delicate aroma of the fresh fruit.

It is economical in use, being concentrated to the fullest extent; 1 oz. will flavour 1 gallon of Syrup, &c.

Per lb., Duty Paid, 4/3. Per lb., in Bond, 2/9.

Sample and General Price List of Essences, Syrups, Cordials, Lemon and Orange Squashes, Citrate, &c., free on application.

CHAS. SOUTHWELL & CO.,
Compounders of Spirits, &c., DOCKHEAD, LONDON.

ORANGE & LEMON PEEL

Of all kinds, English cut, including

FRESH BITTER PEEL

For preparing Tinctures in accordance with the new B.P., cut and prepared by experienced hands.

WILL BE FOUND THE CHEAPEST IN THE TRADE.

All orders will receive strict and prompt attention.

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JOSEPH TOOMEY,

15 Mountford Street, Union St., London, E.

BEAUFOY'S ACETIC ACID

30 per cent., 33 per cent. Brit. Pharm. 1898,
and all strengths up to Glacial.

PRICES QUOTED ON APPLICATION.

Established
1730.

SOUTH LAMBETH, LONDON, S.W.

Established
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A. MILLAR & CO., LTD., DUBLIN.

PURE ORANGE WINE

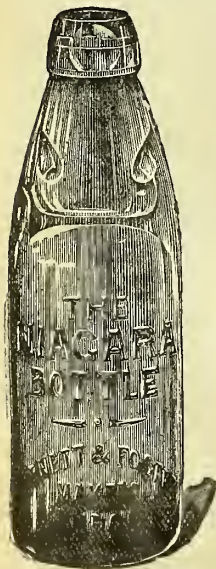
(VINUM AURANTII, B.P.) prepared in strict accordance with the Formula of the British Pharmacopoeia.

Do You Make Your Own Mineral Waters ?

If NOT you should, for a great many Chemists, Hospitals, &c., are using our simple and most effective Plant, and producing splendid Aërated Waters. Write for List.

RENTAL TERMS ON APPLICATION.

THE VOLCANIC AÉRATION CO., 203 Great College Street, LONDON, N.W.



A COMPLETE APPARATUS,
CAPABLE OF PRODUCING

OVER

300 DOZ. BOTTLES

of Aerated Water per day,
at a minimum of cost,
from

£20.

SODA-WATER MACHINERY
BOTTLES, SYPHONS,
AND ALL APPLIANCES FOR THE TRADE.

NO DANGER. NO MESS.

Write for
**ILLUSTRATED
CATALOGUE**

Post Free upon Application.

BARNETT & FOSTER

NIAGARA WORKS,

26TH EAGLE WHARF ROAD, LONDON, N.

10 Gold Medals. 45 Highest Awards.



550 Times Sweeter than Sugar.

USE
Refined
Saccharin

TO SECURE
Refined Drinks.

Fullest Particulars on application to

THE SACCHARIN CORPORATION, LTD.
165 QUEEN VICTORIA ST., E.C.

PHARMACEUTICAL SUGAR.

This Sugar, guaranteed to be Pure Cane Sucrose, dry, and absolutely free from blue (Saccharum Purificatum B.P.), was introduced in 1880 at the suggestion of Dr. Charles Symes, and has since given every satisfaction to an increasing number of pharmacists. It is supplied in any quantity, small or large, and costs but little more than ordinary household sugar.

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Sugar.

MACFIE & SONS, LIVERPOOL.

SOLE WHOLESALE AGENTS FOR CHEMISTS AND DRUGGISTS—
EVANS, SONS & CO., LIVERPOOL. EVANS, LESCHER & WEBB, LONDON. EVANS & SONS (LIMITED), MONTREAL.

St. Raphaël Quinquina.

THE MOST WONDERFUL TONIC WINE
IN THE WORLD.



The ST. RAPHAËL QUINQUINA has the largest sale of any similar Wine in France. For Loss of Appetite, Anæmic Conditions, and Nervous Depression, it is the most wonderful Tonic Wine ever submitted. Apart from its marvellous restorative properties, it is also a pleasant and agreeable Wine, and can be used as a beverage with Mineral Water.

*Show Cards, Handbills, and
all Advertising Matter
supplied free.*

SOLE AGENTS:

BOWEN & MCKECHNIE,
Cross Street, FINSBURY, E.C.

HOOKE'S MILK WINE.

VILNAC
Registered
Trade Mark.

Of extreme utility in cases of (Patented).

Dyspepsia, Anæmia, Debility, Tuberculosis, Phthisis, Insomnia, Heart Weakness, Typhoid and other Fevers, all Wasting Diseases, Mental and Physical Overwork, Loss of Appetite, &c.

A peptonised product of milk containing all the constituents of the original milk (except fat) in a completely digested form. It is of great medical value for use in the sick-room, for convalescents, for those suffering from dyspepsia, insomnia, nervous disorders, &c.

Its value consists in the fact that the whole of the casein or curd of the milk is present in the Wine in the form of peptones, which are capable of being absorbed into the system without digestive effort. Whilst possessing all the valuable properties of a highly peptonised milk it takes the form of a sound and palatable Wine, of great use in all febrile disorders and cases of acute illness where milk or milk and a stimulant is essential, and often difficult to administer. It is in fact a powerful food stimulant and tonic, and may be used successfully with benefit both in illness and convalescence. It is a most useful appetiser and aid to digestion under any circumstances, and especially for the weak and aged.

Many valuable testimonials have already been obtained from medical men and others who have tested and used the Wine.

A Physician in Large Practice certifies:—"HOOKE'S MILK WINE is a valuable addition to the dietary of the sick-room, and I have found it a powerful restorative and stimulant, not only in severe illness, but also in cases of nervous exhaustion induced by overwork, study, and other causes. It has also been used with marked and surprising success where no other food could be taken, and I have been struck with its value as an appetiser when taken shortly before a meal."

Sold in Wine Quarts and Pints, 4/6 and 2/6 per bottle, through any Chemist, or from the Manufacturers:—

THE MILK WINE CO., LTD.

9 Arundel Street, STRAND, LONDON, W.C.

FREE SAMPLES to Medical Practitioners only will be sent on application. Included with each sample is a small bottle of Tannic Acid in Solution. A simple experiment will then immediately demonstrate the Milk Peptones present in the Wine.

Established

113

Years.



TRADE MARK.

PURE AND
UNADULTERATED.

R. J. FULLWOOD & BLAND,

THE ORIGINAL INVENTORS OF THE

PRIME, RICH GOLDEN COLOUR, CAKE AND LIQUID

ANNATTO.

Also
Manufacturers of
JUNKET TABLETS.

Sold in boxes containing 2 doz. tubes
7/6 per box net.

ESSENCE OF RENNET.

For making Junkets, Cheese Cakes, Curds and Whey, &c.
Sold in glass bottles, 1/- and 6d. each.

CHEESE RENNET.

Guaranteed to be a Pure Extract from the stomach Rennet of new-born calves—
stronger than any other in the market, and not to contain anything artificial.

Sold in Jars—1-gallon, ½-gallon, quarts, pints, 1/- and 6d., and in bulk.

RENNET POWDER—Sold in Tins, 1-lb., 10/-, ½-lb., 5/-, and ¼-lb., 2/6.

OLEO BUTTER COLORINE.

A NEW AND MUCH IMPROVED VEGETABLE BUTTER COLOURING.

Sold in Jars—gallons, ½-gallons, quarts, pints, ½-pints, ¼-pints, ⅛-pints, and in glass bottles, 1s. and 6d., and in bulk.

— PROPRIETORS OF —

WALTON'S, FREEMAN'S, AND ISON'S ANNATTOS, AND BAMFORD'S RENNET.

Wholesale Prices to
be had on application to

THE STEAM ANNATTO WORKS, 31 Bevis St., Hoxton, LONDON.

MEDALS AND HIGHEST AWARDS.—Amsterdam Exhibition, 1883; International Exhibition (O.P.), 1884; Cork Exhibition, 1883;
Antwerp Exhibition, 1885; Dairy Shows (London), 1885 and 1886.

MILK IS DANGEROUS! UNLESS YOU STERILIZE IT.

Every Household should Use

THE "GNOM" PATENT

Domestic Sterilizer

The great feature of this patent process of sterilization is that immediately the milk is placed in the bottle the stopper is closed—even during the sterilizing process—and must never be opened until the milk is required for use, thus rendering sterilization practically automatic. This is achieved by the patent stopper, the spring of which rises to release the pressure during sterilization, and automatically closes immediately the pressure is relieved.

SIMPLE, EFFECTIVE, and does not affect the
GOODNESS or TASTE of the Milk.



Process so simple that anyone can carry it out.
Of all Chemists, Ironmongers, &c.

WHOLESALE ONLY OF

L. LUMLEY & CO., 17 America Square, LONDON, E.C.

PROOF not Spirit

but **WINE.**

It cannot be disputed that we have taken
out and paid for

MORE LICENSES

at Somerset House, for the past six months,
than any other firm in the Trade.

Can we be of service to you?

A postcard will fetch our Price List and full particulars.

HOLLOWAY'S WINE CO., LTD.

61 New Oxford St., & Dyott St., LONDON, W.C.

DIASTASED FARINA FOOD

A New and Very Superior Food for Infants, Delicate Children, and Invalids. The great desideratum of a Food for Infants, Delicate Children, and Invalids is easiness of digestion, simplicity of preparation, and power of restoring strength; for these purposes it is superior to any other Food.

RETAIL PRICE 1/6 PER TIN.

A totally unsolicited Report of a Medical Man's experience with the Diastased Farina Food.

DEAR SIR,—Since August I have been trying your "Food," and I am well satisfied with the result. Milk is the most perfect food, but when you have to reckon with a low type of stomach, or a poor class of milk, assimilation is imperfect, dyspepsia frequent. The addition of your "Food" prevents the latter and hurries the former. I have had admirable results in the treatment of Phthisis, Chlorosis, Gastric Ulcer, Atonic Dyspepsia, and Neurasthenia.

Manufacturers:—E. BEANES & CO., Hackney Wick, LONDON, E



'THE BUSY MOTHER INFANTS' FOOD'

A TRUE and COMPLETE FOOD for Infants and Invalids, in which all requisite nutrient properties are so blended as to be partially self-digestive, thus imparting the MAXIMUM of nourishment to the system, at a MINIMUM of digestive effort.

"A PERFECT FOOD."

Dr. A. B. Griffiths, F.R.S. (Edin.), F.C.S.

SOLD IN 1-lb. TINS AT 1/- EACH.

WHOLESALE—1 dozen, 8/6; 3 dozen, 24/-; 1 gross, 84/- BULK, 45/- cwt. net, Carriage Paid. Cash or references from new customers.

BLEASDALE, LIMITED, YORK.

IT WILL PAY YOU TO PUSH
COOMBS'
MALTED FOOD
for Infants and Invalids.

AWARDS.

2

GOLD
MEDALS.



Recom-
mended
by the
Medical
Faculty
and
Leading
Analysts.

See
Drs. Goodfellow's
and
Granville H.
Sharpe's
Reports.

Bears a good profit, and is only supplied to those who agree to sell at full advertised prices.

TERMS ON APPLICATION.

COOMBS' "EUREKA" AERATED FLOUR CO., LTD.
Lenton Boulevard, Nottingham, & 8 & 8a Farringdon
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"FROMMS"
FOOD SPECIALITIES.

For Price Lists, Show Cards, &c.,
apply to

FROMMS EXTRACT CO., LTD.
5 WHITE STREET, MOORFIELDS, E.C.



Prepared under
MEDICAL
INSTRUCTION
from
Purest Cocoa,
Kola Nut, Malt,
and the
Ferruginous
or Iron-bearing
Elements of
Food.

A DELICIOUS, REFRESHING, AND SUSTAINING BEVERAGE.
owing to the Ferruginous Elements contained in it, Ferru-Cocoa largely assists to the formation of Haemoglobin, or red colouring matter in the blood, thereby being of the greatest value to children and invalids in aiding to build up a sound, healthy constitution.

FERRU-COCOA is Muscle-forming, Force-producing, and Enriches the Blood.
The Lancet says:—"Normally Cocoa contains NO iron, and its addition in an organic form in the preparation before us (Ferru-Cocoa) is a step of some importance." The Hospital says:—"Ferru-Cocoa is a preparation of Cocoa from which a large proportion of the natural fat of the Cocoa bean has been removed thereby rendering the preparation more digestible. For all who require a larger amount of ferruginous material than is provided in ordinary articles of diet, this preparation is likely to be useful."

Strongly recommended by the highest medical experts and analysts as the most valuable Blood-forming and Blood-enriching FOOD BEVERAGE known.
Packed in 8d., 9d., and 1/6 Tins, of all Chemists and Grocers.
FREE SAMPLES sent to Trained Nurses and Medical Men on application.
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PERFECTLY PURE BUT NOT INSIPID.

The "LANCET"

AND

DR TIBBLES' Vi-Cocoa

The "LANCET" says:

"Vi-Cocoa must be assigned a place in the front rank of really valuable foods, since it is the embodiment of all the numerous principles contained in Malt, Hops, Kola, and Cocoa."

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An ANALYST

AND

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From MATTHEW A. ADAMS, F.R.C.S., F.I.C., F.C.S.,
Trinity House, Maidstone; Public Analyst in the County of Kent, and Past President of Society of Public Analysts.

"In my opinion Vi-Cocoa is a happy combination, enhancing the food value of ordinary Cocoas."

THOS. GUEST & CO.
Carruthers Street, MANCHESTER.

MAKERS OF MEDICATED LOZENGES AND JUJUBES.

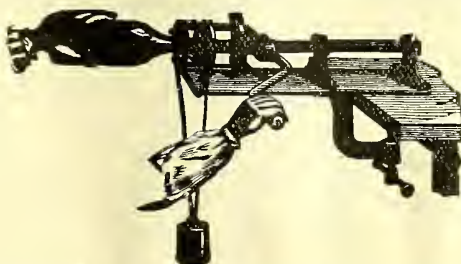
B.P., T.H. Ph., and General Proprietary Lozenges. Decorated Tin Cartons of 2 and 4 lbs. Linseed, Licorice and Chlorodyne—a Speciality. Finest Gum Jujubes and Pastilles—Glycerine and Black Currant, &c. Granular and all Effervescing Preparations. Boiled Sugars, Floral Tablets.

SEND FOR LIST, SAMPLES, AND COMPARE.

TELEPHONE 235. TELEGRAMS "GUESTO."

NEW CAPSULING MACHINE

The only Machine
which leaves no crease
or pleat on the
Capsule.



Can be fixed to any
Counter.
A single pull of the lever
is sufficient
to fix the Capsule.

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Makes the Skin Soft and Delicate.

HYDROXENE



SOAP

Invaluable for the Nursery and Toilet.

HYDROXENE Co., Old Stratford, STONY STRATFORD.

ESTABLISHED 1760.

DUNHILL'S LICORICE CAKES.

All Chemists should stock these, the oldest and best known.

Stocked by the Leading Wholesale Houses.

Free samples on application.
Colonial and Foreign Agents wanted.

DUNHILL & CO. PONTEFRACT.

NEW LINES FOR CHEMISTS.

LANCE PERFUMES

See references in the Winter Number of THE CHEMIST AND DRUGGIST, January 28th, to the Editorial Notices in

THE QUEEN, ILLUSTRATED LONDON NEWS, BLACK AND WHITE, THE GENTLEWOMAN, THE LADIES' PICTORIAL, THE WORLD, TRUTH, etc.

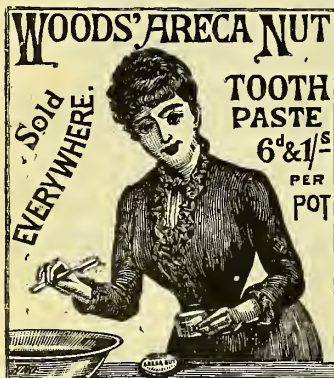
And also Terms for Competition by Chemists.

£20 First Prize, £10 Second Prize, £5 Third Prize.

Will be Supplied through Wholesale Firms ONLY to Chemists. For information apply to

SOLE AGENTS for United Kingdom and Colonies (except Canada):

R. W. GREEFF & CO., 20 EASTCHEAP, LONDON, E.C.



Largest Sale in the World. Hundreds of Testimonials. Have no Substitute.

Also in Collapsible Tubes, 1s. each.

WOODS, PLYMOUTH.

"OLLAPEARL,"

THE DENTIFRICE OF THE AGE.

ABSOLUTELY NOVEL AND INGENIOUS.

Perfumed and Carbolic, 6d. and 1s. BONUS WITH FIRST ORDER. Write for full particulars to

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Every CHEMIST, DRUGGIST, and MANUFACTURER should use

DAILLEY & WILKINSON'S PLEATED PAPER BOTTLE-CAPS.

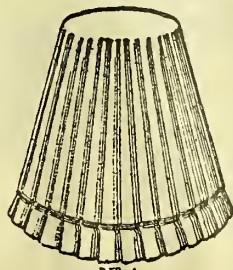
Great Reduction in Prices.

Nos. 0, 1, 2, 3, 10, 20, 30, 3B, } at 5d. per gross.
for Phials... ..

„ 4, 4B, 40 (3 to 6 oz.) ... „ 7d. „

„ 5, 5B, 50, 5½ (8 to 10 oz.) „ 8d. „

„ 6, 6B, 60 (Pints) ... „ 10d. „



№ 4
(Machine-made).

Quality and Colours Guaranteed.

Samples can be had on application through Wholesale Houses, or direct.

8 Great Sutton Street, E.C.

IT PAYS TO SEND FOR SAMPLE DOZEN 3/3

COLLAPSIBLE

TUBES



IN QUALITY
Of Contents and
Labels
WE SPARE
NO EXPENSE,
as
GOODS WELL
PUT UP
are
HALF SOLD.

CHEMIST'S
OWN NAME
PRINTED FREE on
orders of 3 dozen
of each.



CONTAINING
COLD CREAM,
LANOLINE,
GLYCERINE JELLY,
LAVENDER JELLY,
CREME VIOLETTE,
TOOTH PASTES
(Various),
VASELINES,
&c., &c.

OWN PREPS.
Filled in these Tubes at
equally low rates.



MARSHALL'S, LTD., 27 Red Lion Square, London.

FRANCIS NEWBERY & SONS

DRUGGISTS' SUNDRIESMEN,

1 & 3 KING EDWARD STREET, LONDON, E.C.

NEW STAINED DRESSING COMBS

CARDED.

			s.	d.
Small.	Assorted colours.	Per 6 combs	...	2 3
1/-	do. large	" "	...	4 3
1/-	do. rakes	" "	...	4 0

Above Combs are very superior, and sell well at sight.

NEW 1/6 BRONCHITIS KETTLES,

Per dozen, 10/-.

ST. PAUL'S PERFUMES

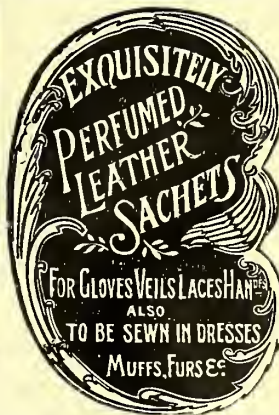
"VIOLET SERIES."

Riviera, Russian, Parma, } Each bottle with
White. } appropriate flower.
Packed 1 doz. of each in neat boxes ... per dozen, 2/-

Chemists who have not yet seen this series are invited to order 1 dozen of each as a trial, and we doubt not that a repeat order for 1 gross assorted will follow very quickly.

Proprietors:

F. NEWBERY & SONS.



**CHOICELY
SCENTED
LEATHER.**

FRAGRANCE RETAINED
INDEFINITELY.

54/- Per Gross.

FROM ALL
WHOLESALE HOUSES.

REFUSE IMITATIONS.

**GARMICHAEL,
158 NEW BOND STREET.**

BRECKNELL'S PRIZE MEDAL.

Recommended by **SKIN** Unscented,
Eminent Medical Men. yet Sweet as a Rose.

Although low in price, it ranks with high-class
soaps, and is altogether the best extant for
producing a Clear and Healthy Skin.

SOAP.

The longer it is kept the more it improves and increases in value
LIBERAL TERMS TO THE TRADE.

BRECKNELL TURNER & SONS, LIMITED.

To Her Majesty, &c., &c.
31 HAYMARKET, LONDON.
ESTABLISHED 1862.

TRY IT IN YOUR BATH.

SCRUBB'S CLOUDY FLUID AMMONIA

MARVELLOUS PREPARATION.

Refreshing as a Turkish Bath.
Splendid Cleansing Preparation for the Hair.
Allays the Irritation caused by Mosquito Bites.
Restores the Colour to Carpets.

Of all Chemists, Etc.

Invaluable for Toilet Purposes.
Removes Stains and Grease Spots from Clothing.
Invigorating in Hot Climates.
Cleans Plate and Jewellery.

Price 1s. per Bottle.

SCRUBB & CO., GUILDFORD STREET, LAMBETH, LONDON, S.E.

BATH-EUCRYL

FOR THE BATH.

Imparts Fragrance to the Bath, is ANTISEPTIC and INVIGORATING. It wards off Chills, Colds, Influenza, &c. Refreshes after Exertion. Maintains Health.

FREE SAMPLES
GOOD CIRCULARS
PROTECTED PROFITS
DEMAND CREATED

Eucryl preparations should be stocked and sold by leading Chemists throughout the country; they are well presented and attract the customer. District Agents appointed and well supported. Bath-Eucryl is supplied to retail at 1/6 and 2/6 per bottle, at 13/6 and 22/9 per dozen net, carriage paid on prepaid orders over 1 dozen. Send for particulars of Eucryl Disinfecting Fluid, Eucryl Vaporising Fluid, Eucryl Disinfecting Powder.

May be had from Barclay's, Butler's, Edwards', Newbery's, Sanger's, Evans' (Liverpool), Woolley's (Manchester), Southall's (Birmingham), Goodall's (Leeds), John Evans (Dublin), &c.

We can supply your requirements for CARBOLIC ACIDS, CRESYLIC ACID, DISINFECTANT POWDERS BENZENE, TOLUOL, XYLOL, NAPHTHALINE. Write for our prices.

MAJOR & CO., LTD., HULL.

PERFECTLY PURE.

WRITE FOR OUR PRICES BEFORE ORDERING.

S^{0/56} V^{0/60} R

TINCTURE SPIRIT,

B.P. 1898 AT LOWEST PRICES.

PURE ORANGE WINE.



S^{0/61} V^{0/64} M

AT LOWEST PRICES.

Special Terms to Large Buyers.

PURE GINGER WINE.

FOREIGN WINE AND SPIRIT MERCHANTS.

SOLE PROPRIETORS OF THE FAMOUS "GLENALLAN" PURE MALT WHISKY.
7 YEARS OLD. THE CREAM OF SCOTCH WHISKY Per doz. 42/- Per doz.

BOORD & SON,

DISTILLERS, FOREIGN WINE AND SPIRIT MERCHANTS, AND METHYLATORS
ALLHALLOWS' LANE AND BARTHOLOMEW CLOSE, LONDON, E.C.

Quotations for S.V.R. Methylated Spirit and Finish on application
FINEST ORANGE WINE FOR QUININE.

**JAMES
BURROUGH**

(LIMITED),

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S^{58 o.p.} V^{60 o.p.} R^{60 o.p.}

CALE ST., CHELSEA, S.W.

and Methylated Spirit

AT LOWEST PRICES.

Write for Quotations.

“ LAIT *Larola* ”

Reg^d

A Delightful SKIN TONIC as well as an EMOLLIENT.
COOLING and REFRESHING.

BEST WHOLESALE TERMS direct to the RETAIL TRADE.

BEETHAM'S				RETAIL.	PER DOZ.	
				s. d.	s. d.	
LAIT LAROLA	6	5 0	For £2 Lots, 20 per cent. discount CASH, on receipt of Invoice. CARRIAGE NOT PAID.
" "	1 0	10 0	
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" "	2 6	25 0	
" LAROLA TOILET POWDER	1 0	10 0	
" "	2 6	25 0	
" LAROLA ROSE BLOOM	1 0	10 0	
" "	1 6	15 0	
" "	2 6	25 0	
" LAROLA TOILET SOAP (3 Cakes in Box)	1 6	15 0	
" LAROLA DENTIFRICE	1 0	10 0	
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BEETHAM'S NEW TOILET MILK

IS AN
IMPROVED PREPARATION
— of their Celebrated —

GLYCERINE
AND
CUCUMBER.

IT HAS NO EQUAL FOR
KEEPING

THE SKIN SOFT,
SMOOTH AND WHITE,
AT ALL SEASONS, AND
REMOVES AND PREVENTS ALL
ROUGHNESS, REDNESS, TAN,
CHAPS. IRRITATION, ETC.

N.B.—BEETHAM'S GLYCERINE
and CUCUMBER is still supplied
as usual.

M. BEETHAM & SONS, Chemists, CHELTENHAM.



CORBYN, STACEY & CO., LTD.

Wholesale and Export Druggists, Analytical Chemists.

MANUFACTURERS OF ALL PHARMACEUTICAL PREPARATIONS.

Offices: 22 GREAT ST. HELENS, E.C. Laboratories and Drug Warehouses: 300 HIGH HOLBORN,
61 and 62 EAGLE STREET, and 7 and 8 FISHER STREET, LONDON, W.C.

DRUG AND ILLUSTRATED PERFUME LIST ON APPLICATION.

CORBYN'S Natural Perfumes

Are specially manufactured by C., S. & Co., Ltd., by the most recent and approved process from the finest raw products imported direct from the South of France and are superior for richness and delicacy of odour to any yet introduced into this country.



In Bulk or in highly Attractive Cases.

Also in Special Quarter-pound Bottles, containing five fluid ounces of TRIPLE EXTRACTS, and labelled with Fancy Coloured French-style label, and sealed with Gold Monogram.

POT POURRI.

Fancy Gold Caskets, in Fancy Leatherette Cases, filled with Pot Pourri. Good selling line.

GRECIAN BOUQUET.

is favourite and lasting Perfume is especially recommended as commanding a ready sale.

EAU DE COLOGNE, LAVENDER
WATER TOILET WATERS,
SPRAYS ETC.

GEO. HALLER & CO., SUSSEX HOUSE, 52 LEADENHALL ST.

SPECIALITIES:

GLYCERINE, all qualities, chemically pure, B.P. 1898, Ph. Jap. II., P.G. III., commercial white and half-white, crude, brown, &c.

MINERAL OILS, importers of white, half-white, and yellow, bloomless, &c.; all qualities for Technical, Cosmetical, and Pharmaceutical purposes.

PARAFFINUM LIQUIDUM, B.P. 1898.

SLAB OIL.

PETROLEUM JELLY of all grades—white, half-white, and yellow.

PARAFFINUM MOLLE, yellow and white, B.P. 1898.

CERESINE, CELATINE, CAMEL (Burnt - sugar Colouring).

CONCENTRATED SPIRIT VINEGAR.

PRECIPITATED CHALK.

SOLIDIFIED OILS.

Manufacturing
Perfumers,

JULES VIGO ET CIE., LTD.

24 Newbury Street,
Aldersgate, E.C.

Popular Perfumes	Sealed	Capped
2d. carded (3 doz.) assorted ...	14/- gross ...	15/- gross
2d. " " decorated... 16/-	" " " 17/-	" " "
3d. boxed " assorted ... 20/-	" " " 21/-	" " "
3d. " " decorated... 22/-	" " " 23/-	" " "

Popular Perfumes	Plain label	Gold blocked label ribboned
6d. assorted ...	39/- gross ...	45/- gross
6d. decorated ...	45/- " ...	48/- "
1s. assorted ...	78/- " ...	90/- "
1s. decorated ...	90/- " ...	96/- "

The decorated lines are ornamented with Lily of the Valley, White Violet, Parma Violet, and Wallflower.

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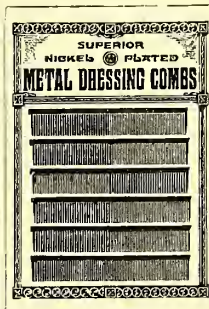
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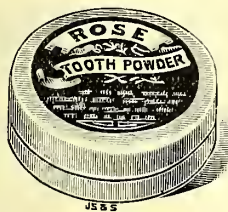
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1 dozen on Card, with Brush.
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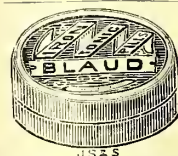
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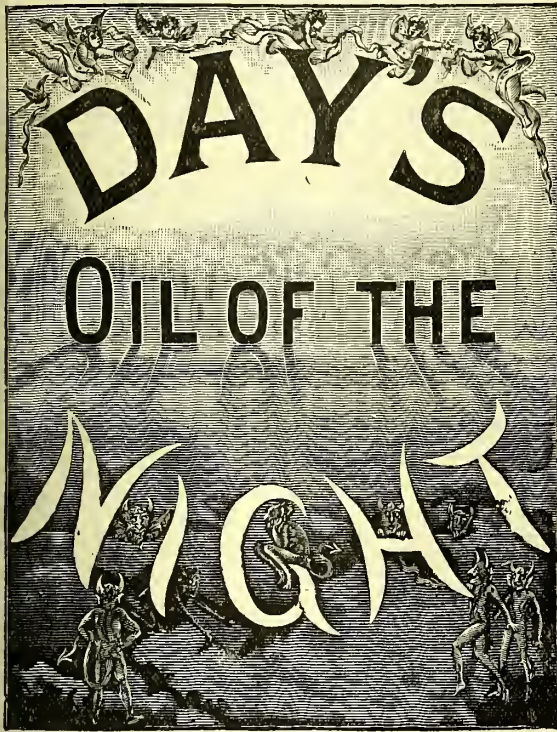
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From Wholesale Houses, or direct.

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DAYS' BLACK DRINK (often called "The Magic Drink").

Cures like "a Charm Colic or Gripes, and Sudden Chills in Horses and Cattle, Hoven or Blown Cattle and Sheep, Scour and Weakness in Calves and Lambs, &c.

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For Costiveness, Loss of Oud, Carget, Colds, Fever, Hide-bound, &c. Prevents Milk Fever, and Cures Bad Cleansing.

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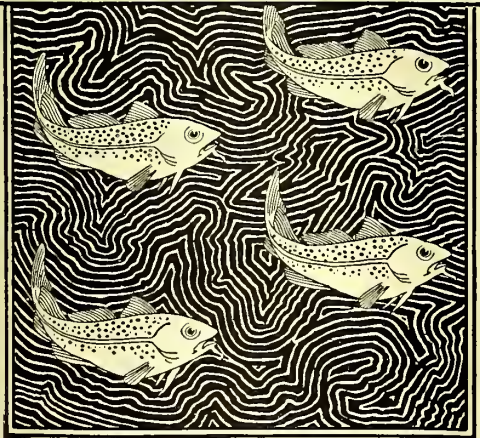
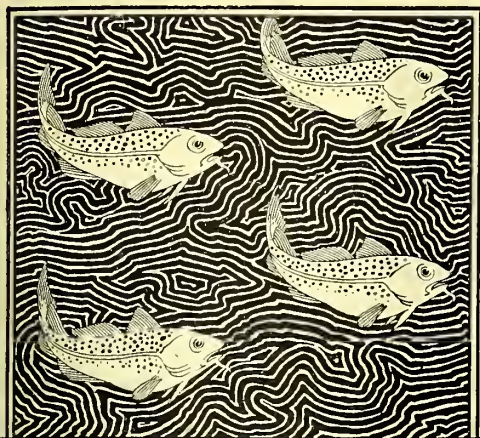
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Small and large bottles, 20s. and 36s. per dozen.

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ANALYTICAL & MANUFACTURING CHEMISTS



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With Cod Liver Oil or the Hypophosphites, and with other combinations.

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A similar Preparation to the above, intended for Adults.

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Pharmaceutical Society of Ireland.
Chemists' and Druggists' Society of Ireland.
Irish Pharmaceutical Assistants' Association.
Pharmaceutical Society of Cape Colony.
South African Pharmaceutical Association.
Pharmaceutical Society of Natal.
Pharmaceutical Society of the South African Republic.
Central Pharmaceutical Association of N.Z.
Otago Pharmaceutical Association, N.Z.
Pharmaceutical Society of N.S. Wales.
Pharmaceutical Society of Queensland.
Pharmaceutical Society of South Australia.
Pharmaceutical Society of Tasmania
Pharmaceutical Society of Western Australia.

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EXPORT TRADE.

THE NEXT ISSUE OF THE CHEMIST AND DRUGGIST will be specially circulated to the Export Merchant Shippers of the United Kingdom.

Export trade is always worth having because it is cash business, and our annual issue addressed to those who place the orders with those who offer the goods has been excellent for advertisers. We strongly recommend all interested to secure space from our publisher by Monday. It should be noted that the circulation is in addition to the ordinary weekly issue of THE CHEMIST AND DRUGGIST, but increased rates for advertisements will not be charged.

Summary.

A DEATH from permanganate of potash is noted on p. 359.

PETERSEN'S JOHANNESBURG DRUG-WAREHOUSE has been burnt out (p. 360).

THE MANCHESTER CORONER does not believe in amateur prescribing (p. 359).

THE BUDGET ESTIMATES for the Nilgiris cinchona-plantations have been issued (p. 361).

UGANDA ALOES—a fine hepatic variety—has come to London for the first time (p. 384).

MR. RICHARD BARRON, a well-known London wholesale druggist, died on Tuesday morning (p. 369).

THE GOVERNMENT BILL to amend the law relating to the Sale of Food and Drugs is explained on p. 372.

MR. FRASER MCDIARMID deploras the absence of Bloomsbury criticism on the new Pharmacopœia (p. 385).

OUR POISONS REGULATIONS COMPETITION is bringing out valuable suggestions. A few are printed on p. 370.

JAPANESE IODINE has hitherto been a mysterious factor in trade, but some light is thrown upon it in a note on p. 387.

THE B.P. HYPOPHOSPHITES-TEST with permanganate is not so far wrong as Mr. Typke says, according to Dr. Jowett (p. 380).

A WHOLESALE DRUGGIST CRICKET CHAMPIONSHIP CUP has been subscribed for by ten firms, who gave two guineas each (p. 258).

AN ORDINANCE for the regulation of pharmacy in British Guiana is to be introduced into the Legislature of that colony (p. 363).

THE JAPANESE DRUG-MARKET is somewhat depressed at present. A Yokohama correspondent reports upon it in a letter on p. 388.

THE WISDOM, or otherwise, of giving references to assistants who go to stores is further discussed by correspondents (p. 360).

THE PHARMACEUTICAL SOCIETY OF GREAT BRITAIN are about to elect a representative under the Chelsea Physic Gardens scheme (p. 363).

LIVERPOOL CHEMISTS last week discussed the proposed Pharmacy Bill, and, while agreeing with it generally, criticised it somewhat freely (p. 364).

PRESTON CHEMISTS were festive on February 23, and indulged in some reflections more or less felicitous on the C. & D. and its articles (p. 367).

THE PHARMACEUTICAL COUNCIL had little to do on Wednesday, and nothing to say about the Pharmacy Bill. The meeting is reported on p. 362.

THE DIRECTOR OF NAVY CONTRACTS at Whitehall has intimated to Messrs. Leslie & Co., Dublin, that in consequence of their distance from London he cannot invite them to tender for medicines (p. 360).

QUININE is dearer this week, and speculation in it has resumed owing to further decrease in Java cinchona shipments and higher price of bark in London. A large arrival of Rio ipecac. has eased prices of that drug slightly. Otherwise the drug-markets are quiet. We report the cinchona, senna, and vanilla sales (p. 384).

IN THE LAW COURTS the Sen-Sen Company have obtained an interlocutory injunction against the agent for a Canadian company, who sold an imitation; St. Raphael, as the name for a wine, is allowed to remain on the trade-mark register, the Judge holding that it refers to the saint and not to the village of that name; the electro chemical patents for the manufacture of caustic soda are under review; liniment of camphor is the principal drug dealt with under the Sale of Food and Drugs Act; and some further steps in the Saccharin and "Royal" baking-powder litigations are reported (p. 376).

English News.

Local newspapers containing marked items of news interesting to the trade are always welcomed by the Editor.

"The Alchemist."

On Friday evening, February 24, the hall of the Society of Apothecaries at Blackfriars was a scene of revelry such as it has not seen before, for the Master and Wardens had granted the Elizabethan Stage Society use of the hall to perform therein Ben Jonson's comedy, "The Alchemist." The Elizabethan Stage Society takes itself seriously, and makes a feature of presenting out-of-the-way plays of two or three hundred years ago, unsullied by blue pencil and unadorned by scenery. "The Alchemist's" chief claim to immortality is that the leading character, "Abeel Druggier," was one of David Garrick's masterpieces. The piece went off as well on Friday evening as it could be expected to go before a pink pill and Apena audience, who cannot be much in love with the recondite intermixtures which the rare Ben's comedy presented to them. The Society of Apothecaries assisted with the "properties," so that the performance concluded without any indecorous flash or bang, and as the spectacles worn by the more learned characters were real Elizabethan-period affairs, lent by Mr. Kemp, optician, the wisdom that lurked behind them was supreme. The Apothecaries' Hall stands on the site of the old Blackfriars Theatre, where most of Ben Jonson's plays were acted.

Embezzling from Idris.

At the Clerkenwell Police Court, on February 24, Richard Davis, a clerk, was charged with embezzling 17s. 10d. in several sums, the money of Messrs. Idris & Co., mineral-water manufacturers. The prisoner had been in the service of the company for four years, and received a salary of 16s. a week. It was his duty to receive money from customers at the office, give receipts, which he was required to duplicate, and hand the various sums to the cash-clerk. Davis absconded on February 13, and after he left four large account-books were missed, two of which prisoner admitted he had burnt. In addition to the sum mentioned in the charge, Davis had embezzled 15l. from one customer. It was intimated that the prosecutors did not wish to press the charge, but the Magistrate said the fact that the books had been destroyed aggravated the case, and sent Davis to gaol for three months.

Wiltshire Drugs.

The Wiltshire Public Analyst, in his quarterly report, states that in two samples of Gregory's powder analysed by him carbonate of magnesia had been substituted for calcined. One sample of magnesia obtained proved to be carbonate of magnesia, and nitrate of soda was supplied in one instance for saltpetre.

Accident at B. W. & Co.'s Factory.

On February 22 some temporary scaffolding in the new buildings in course of erection by Messrs. Burroughs, Wellcome & Co., at their Dartford works, suddenly gave way, and one of the workmen broke his thigh.

Wholesale Druggists' Cricket Championship.

A cup has been provided for this championship through the generosity of the following firms, each of whom has given a donation of two guineas:—Messrs. Burgoyne, Burbidge & Co., Burroughs, Wellcome & Co., Davy, Hill & Co., Howards & Sons, Hewlett & Son, Hearon, Squire & Francis, May & Baker (Limited), Stafford Allen & Sons, Willows, Francis, Butler & Ayscough Thompson, Wright, Layman & Umney. Mr. E. Sibley, of Davy, Hill & Co., 64 Park Street, Southwark, has been elected Secretary of the League.

Royal Botanical Society.

At a meeting of this Society on February 25, it was announced that the buildings in the Gardens had been completed and leased to the Royal Botanic Gardens Club, consisting of Fellows of the Society, for which a committee of management, consisting of both ladies and gentlemen, had been elected. It will provide all the facilities usually found

in London clubs, in addition to the great advantages to be derived from its position in the gardens.

New Hospital Laboratories.

The new laboratories in connection with the Middlesex Hospital Medical School are now completed, and are equipped with all the best modern appliances for the purpose of instruction and original research. A *conversazione* will be held in the new buildings on March 15, when many objects of interest will be exhibited.

The Pills not to Blame.

At an inquest held at Chudleigh last week, on the body of an old woman named Parr, who was found dead, Mr. Stow, traveller for a chemist at Newton Abbot, gave evidence that the day before her death he supplied deceased with a box of pills for indigestion. Medical evidence proved that death was due to heart-disease, and a verdict was given accordingly.

In the Arsenic-works.

At a meeting of the Tavistock Board of Guardians on February 24 a report was presented of the investigations made, at the instigation of the Board, by two medical officers of health into the conditions of employment prevailing in the arsenic-works within the area of the Tavistock Union. According to the report the average age at which the arsenic-workers are disabled from following their employment is 40, but some of the arsenic paupers who are thrown upon the parish are reduced to wrecks at 30. Nearly all are suffering from diseases of the respiratory organs, the effects of arsenical fumes. Of every 100 employés at the arsenic-works who have died or become disabled in the parish during the last three years eighty-three have died from respiratory diseases. The doctors who visited the works found that the precautions against arsenical poisoning were inadequate.

Medicine-mistake.

At Birmingham, on February 27, an inquest was held concerning the death of Thomas Bayliss, an electroplater. Deceased had been in indifferent health for some time, and kept a supply of medicine in his office in close proximity to various chemicals which he used in his business. On the day of his death he had apparently taken a quantity of cyanide-of-potassium solution in mistake for his medicine, and was removed to the General Hospital, where he died. A bottle containing cyanide of potassium was found in his pocket. Mr. Geoffrey Poole, chemist, stated that Mr. Bayliss on the day of his death called at his shop and asked for a quantity of rat-poison. He wanted something that would act quickly, so witness gave him 20 gr. of strychnine and 20 gr. of powdered starch. Deceased signed the poisons-book remarking at the same time about having to sign for so small a quantity of poison when he had 1 cwt. of cyanide of potassium on his own premises. The packet supplied by Mr. Poole had been found untouched. The jury returned a verdict of death from misadventure.

Pharmaceutical Students at Newgate.

The students of the Imperial College of Chemistry were entertained on Tuesday last by paying a visit to the interior of Newgate Prison. The party was conducted through by Chief-Warder Scott, who explained the mysteries of criminal life so far as punishment is concerned. The scaffold was shown, and students were invited to try the effect of the last punishment of all, but they all selected the Pharmaceutical examination in preference. Mr. F. Davis, the principal, thanked Mr. Scott for his interesting explanations.

Early-closing.

The chemists in business at the East-end of Newcastle-on-Tyne have unanimously agreed to close at 8.30. Mr. T. Malthy Clague came in as the necessary outsider a mediator, and having got all the proprietors (nine in number) together, secured their agreement.

Amalgamation.

Our Manchester correspondent informs us that suggestion have been made in reference to an amalgamation of the Pharmaceutical Societies in the Lancashire district. It is proposed that members of existing societies shall be honorary members of the amalgamation, and that general meeting

should be held quarterly at different centres in order to deal with prominent subjects. Probably this is only a proposal to follow up the scheme suggested last week by Mr. News-holme at Bradford.

Amateur-prescribing.

A long inquiry was held by the Manchester City Coroner, on March 1, into the death of a woman from the effects of taking a mixture consisting of "one-pennyworth of laudanum, $\frac{1}{2}$ oz. of castor oil, and two-pennyworth of tincture of rhubarb." This mixture was recommended to deceased by a fellow-worker in the warehouse in which she was employed, and further advice enjoined that "she was to drink 1 pint of warm milk before taking the mixture, and then go to bed." These directions were faithfully followed by the deceased, with the result that she died in the Infirmary the following day. The mixture was properly labelled "Poison." The Coroner, in the course of his remarks on the folly of amateur-prescribing, told the jury that a pennyworth of laudanum might be anything according to the generosity of the chemist and the strength of the poison. If the B.P. formula were followed it should be of uniform strength. Dr. Miller, from the Infirmary, who was giving evidence, thought some chemists watered it down. The Coroner wound up a long diatribe against amateur prescribers with the remark that the longer he sat in that court the more he became convinced of the danger of taking medicine at all. A verdict of death from misadventure was returned.

Poisoned by Permanganate of Potash.

At Lambeth, on March 1, an inquest was held on the death of a woman named Connor. The husband of deceased stated that his wife mixed a quantity of permanganate of potash with beer, and drank it in his presence. He obtained the potash for disinfecting-purposes from the St. Giles's District Board of Works, in whose employ he was in September last. Mr. E. Farquhar Buzzard, house-physician at St. Thomas's Hospital, said the woman died about three-quarters of an hour after her admission. Death was due to shock produced by the destruction of a large area of the mucous membrane, and by the depressant effect of the poison on the heart. The witness had searched all the authorities, but could find no record of a previous death from permanganate of potash. The Coroner said he had never heard of a similar case; and Dr. Thomas Stevenson, the well-known toxicologist, of Guy's Hospital, had written him to a like effect, but adding "that the crystals should kill is likely enough, as even a strong solution of permanganate (1 in 20) acts as a powerful destructive agent upon animal tissues, living or dead." The jury returned a verdict of suicide during temporary insanity, with an expression of opinion that very great care should be exercised by local sanitary authorities in giving out dangerous disinfectants.

Store-prices.

The following are noted as alterations in the price-list of the Army and Navy Stores:—

ADVANCED.—Camphor, 2s. per lb.; Howards' quinine, 1s. 8d. per oz., 11d. per $\frac{1}{2}$ oz., 4d. per $\frac{1}{4}$ oz.

ADDITIONS.—Special bottles, nickel-plated, for sparklets, 8s. 6d. each; ditto, encased with electroplated wire, 10s. 6d. each; Olla-pearl dentifrice (carbolic), 4 $\frac{1}{2}$ d. and 10d. per box; C.B.Q. tablets, 2s. 5d. and 3s. 11d. per bottle; C.B.Q. liniments, Nos. 1 and 2, 3s. 11d. per bottle, each; C.B.Q. pills, 10 $\frac{1}{2}$ d. per box; Eucol (small size), 1s. 7d. per bottle; Eucol dentifrice (small size), 10 $\frac{1}{2}$ d. per bottle; aseptic Japanese paper handkerchiefs, 2s. per packet of 100.

Chemist's Breach of Promise.

At York Castle, on February 28, Miss Ida Jane Wray, of Beverley, sued Mr. H. L. Douthwaite, chemist and druggist, 96 Westbourne Grove, W., for damages for breach of promise of marriage. The promise was admitted, and the Court was held for the purpose of assessing the amount of damages. In the course of the evidence it was stated that defendant was a native of Beverley, where his father was a veterinary surgeon. He went to London in 1894 as assistant to Mr. Bartley, chemist, Westbourne Grove. At that time he told plaintiff that he was receiving 100l. a year; but Mr. Bartley was an old man, and he might ultimately become a partner. The business was afterwards sold to Messrs. H. J. Bond (Limited), who employed defendant as manager at 200l. a year. The jury awarded the plaintiff 100l.

Irish News.

Local newspapers containing marked items of news interesting to the trade are always welcomed by the Editor.

Personal.

Mr. Thomas P. Whelehan, L.P.S.I., late of Drogheda, is about to open a pharmacy in Mullingar.

Mr. Harry C. Meyrick, L.P.S.I., Dublin, has been appointed manager of Dr. Mortagh's Medical Hall, Drogheda.

Mr. F. J. Martin, L.P.S.I., late of Bailieborough, county Cavan, has opened a pharmacy on Harold's Cross Road, Dublin.

Mr. T. W. Robinson, M.P.S.I., director of Messrs. Hayes, Conyngham & Robinson (Limited) has received the Commission of the Peace.

Mr. William J. MacNeight, managing director of Messrs. Moore & Alexanders (Limited), wholesale chemists and druggists, Dublin, has been elected a member of the Council of the Art Union of Ireland.

Want Damages.

The Ulster Chemists (Limited) are claiming against the Belfast Corporation under the Malicious Injuries Act in respect of glass damaged in their premises at Mill Street on December 31 last.

A Chemist's Action.

In the Queen's Bench Division, Dublin, last week Mr. B. Cunningham, L.P.S.I., Dublin Road, Belfast, brought an action against Messrs. Creighton, builders, whose premises adjoin his pharmacy, to recover damages for trespass. The case was adjourned for the production of certain documents.

Fires.

Messrs. Campbell & Co.'s drug-stores, New King Street, Belfast, have been seriously damaged by a fire, the cause of which is unknown. The damage exceeds 1,000l.

On Saturday afternoon a fire was discovered to have broken out in the stores at the rear of Messrs. James McCaul & Co.'s pharmacy, Londonderry. The damage done was inconsiderable.

Gouldings Growing.

At an extraordinary general meeting last week of the chemical-firm of W. & H. M. Goulding (Limited), Cork, it was resolved to increase the capital of the company to 350,000l. by the creation of 20,000 ordinary shares of 5l. each, ranking for dividend and in all other respect *pari passu* with the existing ordinary shares in the concern.

New Medicine-tenders.

The Local Government Board have intimated to the Banbridge Guardians that they are proposing a new method of contracting for drugs and medical appliances. A scale of prices will be fixed; the contractors in tendering are to state how much per cent. under the scale they are prepared to accept; all drugs to be subject to analysis; and the question of recoupment out of the general fund in cases where a contractor who supplied drugs below the standard was continued in office to be considered by the Local Government Board.

Window-smashing.

At the Clontarf (Dublin) Petty Sessions a man named John Moran has been charged with having on February 14 broken a large sheet of plate glass in the branch-pharmacy of Messrs. Hayes, Conyngham & Robinson (Limited), pharmacists, at Fairview Corner. According to the evidence the accused walked up to the establishment and hurled an immense stone through the window, smashing a large quantity of cut-glass bottles inside. After his arrest he gave a variety of reasons for his action. The Magistrates committed the man for trial to the County Sessions, but declined to admit him to bail, as he appeared to be suffering from mental excitement.

Admiralty-contracts and Irish Drug-firms.

Messrs. P. A. Leslie & Co., of Dublin, send us the reply they have received from the Director of Navy Contracts, Whitehall, to their application to be allowed to tender for drugs for the Navy. The Director says: "It is feared that you are at too great a distance from the principal naval medical establishments to be able to make prompt delivery. Orders for medicine, &c., sometimes in very small packages, are continually being sent for immediate execution, and the delays that would unavoidably occur if supplies had to be sent from Dublin would prove an insuperable difficulty." The Director also thinks the present system of returning empties would scarcely be practicable with a Dublin firm. Messrs. Leslie, commenting on this letter, say: "We pay our share in taxes towards the support of the Navy (more than our share, some say), and we think that, in common justice, Irish firms should be allowed to tender for supplies, the same as our English *confrères*."

French News.

(From our Paris Correspondent.)

LIGHTING BY ALCOHOL.—The question of the substitution of petroleum by alcohol for illuminating purposes is receiving serious attention in France. The theory appears to be that alcohol can be produced in sufficient quantities from beetroot, &c., and at a price that will enable it to compete with mineral oil. This would, of course, be greatly in favour of French agriculture, and the subject is to be discussed next week at the annual meeting of the Society for the encouragement of Agriculture.

THYROIDIN-PRODUCTS.—A committee appointed by the Paris Academy of Medicine to study thyroidin-products has prepared a report on the subject in which they state: "Thyroidin-products, in whatever form they are presented, are poisonous and on this account ought to be included in the category of dangerous remedies, only to be prescribed by a doctor, who should superintend their use. They should not be delivered to the public except against a doctor's prescription, to be renewed each time such preparations are required." The Academy has voted in favour of this proposal.

THE NATIONAL OFFICE FOR FOREIGN TRADE.—The French Minister of Commerce has issued a report regarding the working of this office, since its formation last July, to December 31 last. Replies were given to 1,258 verbal applications and 8,458 letters were received. The journal of the office, *Le Moniteur officiel du Commerce*, is to be enlarged, and a proposal is made to create a new publication under the title of "Informations et renseignements de l'Office National du Commerce Extérieur," to be distributed gratuitously to newspapers and Chambers of Commerce. Owing to the almost entire absence of trade journals in France, the Government has, so to speak, been obliged to replace them, which at the best can only be done imperfectly unless the office is divided into sections with specialists at the head of each, which is not the case so far.

A PHARMACIEN DEPUTY.—M. Charles Bernard, the pharmacien Socialist deputy for Bordeaux, has been rather conspicuous lately. He made his maiden speech in the Chamber of Deputies a few weeks ago, which was apparently received with more hilarity than applause. He accompanied Henri Rochefort and Max Régis in their anti-Semite trip to Algeria a week ago, and the last number of *L'Illustration* contains a snapshot of the pharmacien on the deck of the steamer, wearing his tricolour parliamentary scarf during the sea-passage. "I hastened to take this snapshot," writes the correspondent, "before the *mal de mer* should cause the deputies to disappear." The pharmacy of M. Charles Bernard is situated Cours de Cécé, Bordeaux, and should not be confounded with that of M. Emile Bernard, in the rue Fondaudé. Charles Bernard took an active part in journalism before his parliamentary election, but, I am informed, continued to practise pharmacy up to that time—nominally, at any rate.

BULL-FIGHT REWARDS.—I was in Bayonne last week, and was struck by the pharmacy of M. Lucien Campan in the

rue Gambetta. M. Campan is a member of the Committee of the Arènes Bayonnaises (Plaza de Toros). Posters in his shop and on the hoardings of the town announce the appearance of famous Spanish toreadors in the arena in July and September next. A free first-class ticket for the spectacle is offered to every person purchasing 2*l.* worth of pharmaceutical articles (bandages, chocolate, and all side-lines included) at M. Campan's "pharmacie populaire et du bon marché" between February 15 and the date of the bull-fight. If there are any Bayonnais and Bayonnaises who do not relish the sanguinary sport, they may select instead of the bull-fight ticket a free railway-ticket, a parcel of tea, or some other treat. Patents seem badly cut in Bayonne. In the rue Victor Hugo there is a pharmacy which shows cards offering some 200 articles at very low prices. I noted:—

		f. c.	f. c.
Pilules "pink" (sic) ...	...	2 60	instead of 3 50
Scott's emulsion...	...	4 30	" " 6 00
Nestlé's food ...	...	1 45	" " 2 00
Santal Midy ...	...	3 10	" " 5 00
Tisane de Shakers (packeted at Lille)	...	3 10	" " 4 50

JANOS AND HUNYADI JANOS.—M. Oswald Laugier, of Marseilles, has been prosecuted by the widow of Andreas Saxlehner, proprietress of the Hunyadi Janos Water, on the ground of unfair competition. The plaintiff alleged that the defendant had been offering for sale a water obtained from a source belonging to Lozer Janos, of Budaors, Hungary, and had also distributed samples gratuitously to pharmacists under the name of "Janos Water." On his prospectus appeared the phrase: "Do not believe this is an imitation; it is authentic Janos Water." The Judge held that this was unfair competition, and that the statement was calculated to mislead the public. Considering, however, that the prejudice occasioned was small, and purely local, the damages were fixed at 200*f.* (8*l.*), with insertion of the judgment in a local newspaper, also at the defendant's expense.

South African News.

(From our Correspondent.)

A GOLD MEDAL has been awarded by the Chemical and Metallurgical Society of South Africa to Mr. Andrew J. Crosse, for his original method of estimating the acid-value of cyanide solutions.

AN EXHIBITION FOR CAPE TOWN.—A movement is on foot among some of the leading commercial men in Cape Town to hold an industrial exhibition there next year at the close of the Paris Exhibition.

OPEN-AIR CONSUMPTION-CURE.—The movement in England for the establishment of sanatoria for the open-air treatment of consumption is being closely watched in the Cape, which has become a sort of dumping-ground for impoverished consumptives.

BUSINESS-CHANGE.—Mr. James Jones, the proprietor of Rheumacuro, has sold his drug-store in Long Street, Cape Town, to Mr. T. James, who will continue it under the style of "T. James & Co." Mr. Jones intends to devote his time to his proprietary medicines, and is fitting up a new factory.

INOCULATION FOR REDWATER.—The principal veterinary surgeon for Natal, on February 2, superintended, on behalf of the Government, the inoculation of a number of healthy cattle for redwater. If the experiment proves successful, the Government will establish a permanent redwater-inoculation station at Durban for cattle arriving at that port.

A DISASTROUS FIRE occurred, on February 3, in the wholesale drug-warehouse of Messrs. P. J. Petersen & Co., Fraser and Pritchard Streets, Johannesburg, by which a loss of 30,000*l.* was entailed. While Mr. R. W. Parsons was working on the top floor he heard a carboy of sulphuric acid burst; this in its turn smashed bottles of nitric acid, and almost before Mr. Parsons (who was sprayed with the acids) could give the alarm flames burst out, and it was the work of a few moments for combustible liquids to run down from floor to floor. Mr. Parsons managed to escape with severe injuries, and to give others of the staff the alarm. Within

half-an-hour the building (worth 5,000*l.*) and the stock (valued at 25,000*l.*) were entirely destroyed, in spite of the gallant efforts of the fire-brigade. The retail shop was saved. Mr. Dukes, the manager of the branch, states that policies with the Norwich Union, Mercantile, and Northern Union Companies cover the loss. The fire was one of the fiercest which has ever been seen in Johannesburg.

FOLLOWING UP TRADE-MARKS.—British firms, whose specialities are on the Cape market, have been registering their labels, styles of package, &c., rather freely of late, but most firms simply register, then leave the line to look after itself. This is not sufficient. The words "registered at the Cape" is not much of a warning, and a constant eye needs to be kept, and all infringements or copies rigorously dealt with. They are plentiful.

HANNAH'S BANKRUPTCY.—Mr. C. L. van Breda, a partner in the firm of T. Hannah & Co., chemists, Maritzburg and elsewhere in Natal, was examined at a meeting of the creditors of the firm held at Darban on January 6. The partnership commenced in May of last year, he and Mr. Hannah agreeing to put in 750*l.* each. Witness paid in his share and further sums, making a total of 3,020*l.* The examination was chiefly concerned with witness's relations with Hannah, and the latter's use of the firm's money for payment of his private debts. Asked by the trustee if he could pay the deficiency of 1,200*l.* in the firm's accounts, he said he could not, as his house and furniture (which had been interdicted) had cost him 400*l.* only. Later the same day Thomas Hannah, the partner, was brought up in custody at the City Magistrates' Court (before Mr. Forder, A.M.) for preliminary examination on the charge of perjury, and was remanded.

CONDITION OF TRADE.—There is nothing startling to report in connection with the drug-trade of Cape Colony. The conversion of Messrs. B. G. Lennon & Co. (Limited) into Lennon (Limited), with a large increase of capital, and, consequently, larger business ability, may do much to alter the present ways of trade, especially in the urban districts and Western Province generally. Whether or no this conversion has sowed the seed, the fact remains that in drug-circles just now the "limited" idea is the talk, and a company with a small capital to open retail stores is contemplated, but nothing definite has been done as yet. It is also rumoured that an old-established firm in Cape Town would float their business, but I have it from the principal that they have no thought of doing anything of the kind. For the half-year ending December trade worked out about normal. The first three months opened rather slow; an upward tendency towards the latter part of the year brought returns up to what was reasonably expected. The Christmas trade did not come up to expectations, which is no doubt accounted for by the fact that country and inland town residents, who, as a rule, visited the peninsula during the vacation, went to Grahamstown instead.

BUBONIC PLAGUE.—A disease which appeared a short time ago at Delagoa Bay, and which the medical authorities failed to find a name for, was readily diagnosed as bubonic plague by the newspaper correspondents. The report proved a *canard* in so far as it indicated the Oriental plague; but the authorities were alive to the fact that a malady was prevalent at the port among the coloured population which rather baffled them. The scare had good effect, however, as it hurried forward the proposed conference of delegates of all South African States at Pretoria, which commenced on January 31 and closed February 6. The members of the conference were:—Drs. Te Water and Gregory, Cape Colony; Dr. Jas. Hyslop, Natal; Dr. Ramsbottom, Orange Free State; Dr. Jaco Martins, Delagoa; and Drs. Messum and Lingbeck, South African Republic. The proceedings were conducted in private. The island of Mauritius has become infected with the plague, and all vessels arriving from there are subjected to the most stringent quarantine regulations. Madagascar is believed to have secretly tried to combat the disease, but not until its existence became known. So as to be in readiness for all eventualities, the Natal Government has ordered a hospital to be built within three months, to receive any case presenting itself the nature of which cannot be at once defined.

Colonial and Foreign News.

"CINEOL" is a name which has been misappropriated for a German speciality which the Karlsruhe Board of Health has found to be a mixture of eucalyptus oil, oil of cajuput, and turpentine.

CHEMICAL MAKERS COMBINE.—A combination of about twenty chemical-manufacturing firms in the States has been effected, with a capital of \$25,000,000. The combination will be known as the General Chemical Company of Philipstown, Putnam County, and will manufacture all kinds of chemicals in New York State and elsewhere.

A RIVAL TO IBSEN.—The great Swedish dramatist and erstwhile pharmacist, Henrik Ibsen, has a rival in Stefan Lukács, master of pharmacy and editor of *Gyógyszereszi Ertesito*, who has written a play entitled "Human Frailty," which has been performed in the Kiszaludy Theatre, Budapest, with tolerable success.

BAKING-POWDER COMBINE.—Efforts are being made in New York to effect a combination of the various baking-powder concerns, and negotiations are in progress looking to the absorption of the Royal Baking Powder Company and the Cleveland (two of the largest firms), and others of lesser note. The reasons given for the combination are that the competition has become so keen that while the consumption is steadily on the increase the desire to do business has kept prices down.

ALBANY POISON BOTTLE BILL.—A member of the Albany Legislature has introduced into that assembly a Bill requiring druggists, pharmacists, and manufacturers, both wholesale and retail, who shall sell any proprietary medicine containing poison or poisons in any form to put such medicine in "such bottles or packages of such size, shape, or condition as to give notice of its contents." Failure to do this is made a misdemeanour, punishable by fine or imprisonment. The Adams-Cornish poisoning-case in New York City is said to have been the inspiration of this Bill.

PUTS AND CALLS IN DRUGS.—Efforts are being made by a number of buyers in the New York wholesale drug-trade to introduce an innovation by endeavouring to induce sellers to sign contracts giving the buyer option of taking as much or as little of a commodity as he pleases at a fixed date and fixed price, and binding the seller to fill the order no matter what may have happened in the market in the meantime. Some of the smaller firms have done business on the above terms, but several of the prominent drug-merchants have declared that they will not do business on such terms.

NEW YORK POISONING CASE.—What is believed to be the climax in the mysterious cyanide poisoning case unexpectedly occurred on February 27, at the inquest which is being held on the deceased woman Mrs. Adams. A witness who rented a letter-box to a man named Barnett (another victim of the poisoner) pointed out Mr. Molineux, a chemist, as the person who rented the box. Molineux immediately jumped to his feet and gave the witness the lie, but a further sensation followed when the handwriting experts attested that letters from the supposed poisoner signed "Barnet & Cornish," and the address on the package sent to Mr. Cornish, nephew of Mrs. Adams, were all in Molineux's handwriting. It is said that the arrest of Molineux will follow these disclosures.

NILGIRIS CINCHONA-PLANTATIONS.—The Budget estimates for the Government cinchona-plantations, Nilgiris, for 1899-1900 have been issued. The estimated receipts amount to 1,20,000*l.* This forecast is based on the anticipation that only 5,000 lbs. of quinine and 2,500 lbs. of febrifuge will be sold. If, however, a market can be found for the 10,000 lbs. of quinine being manufactured this year, there is expected to be a considerable increase in the revenue. The estimated expenditure for the same period is 1,48,400*l.*, or 53,500*l.* less than the sanctioned Budget estimate and revised estimate for the current year. This is chiefly due to reductions under factory charges, as only 200,000 lbs. instead of 400,000 lbs. of bark will be purchased from private growers at an estimated cost of 43,750*l.*, to supplement the yield of the existing plantations.

Pharmaceutical Society of Great Britain.

COUNCIL MEETING.

THE meeting on Wednesday just missed being interesting to chemists by reason of the announcement of the President that the Law and Parliamentary Committee's meeting had been held, "but nothing took place that it would be of advantage to make public." Those who turn to the report of the proceedings of the Council, expecting to hear something of the progress of the draft Pharmacy Bill, must content themselves with reading about an Ordinance which it is proposed to make law in British Guiana. This ordinance is looked upon as supporting, in some way, the provisions of the draft Pharmacy Bill. The annual meeting of the Society is to be held on May 17, and the evening meetings are settled to take place on the second Tuesday evenings of the winter months. The absence of the Secretary (Mr. Richard Bremridge), through illness, was so unusual as to be notable.

The meeting began at 11.20. The following Councillors were pre-ent, in addition to the President (Mr. Walter Hills) and the Vice-President (Mr. Newsholme):—Messrs. Allen, Atkins, Bateson, Bittle, Corder, Cross, Grose, Harrington, Harrison, Johnston, Savory, Southall, Storarr, Symes, Warren, and Young. Mr. Carteighe came in at "half-time."

The PRESIDENT said he had to apologise for the absence of the Secretary, who, although in his office, was too unwell to attend the Council meeting. He was sure, he added, they all wished him a speedy return to health.

The minutes of the previous meeting were read by Mr. CHATER and confirmed, after which the Council proceeded with

THE ELECTIONS.

Four hundred and eighty new members were elected, and forty-two student-associates. Eighteen gentlemen and one lady were restored to their former status in the Society, and three persons to the register.

POISON REGULATIONS.

A letter was then read from the Clerk to the Privy Council, dated February 3, transmitting the Order in Council made by the Privy Council approving of the regulations for storing and selling poisons made at the meeting of the Society in January.

THE FINANCE COMMITTEE'S

report was then read. It showed the following balances, on the—

	£	s.	d.
General Fund account	22	3	0
Benevolent Fund	678	5	9
Donation account	647	18	5
Orphan Fund account	219	12	0

There was submitted for payment the sum of 2,304*l.* 5*s.* 5*d.*, the items of which were not stated.

The PRESIDENT, in moving the adoption of the report, said the payments and receipts were not unusual, so he need not refer to them, except, perhaps, to notice that the amount for the *Journal* was a little high this month. This, he explained, was in consequence of certain special printing expenses which had been incurred. He might also mention that the Benevolent Fund had benefited by the sum of 10*l.* 10*s.* sent by the Pharmacy Club. The report was adopted.

The Treasurer was directed to pay each of the Bell scholars the sum of 15*l.*, the second moiety due to them.

The report of the

BENEVOLENT FUND COMMITTEE

was then read. It recommended the payment of two sums of 10*l.* each, and one each of 13*l.*, 15*l.*, and 20*l.* Two other applications were not entertained, and one was deferred.

The VICE-PRESIDENT moved the adoption of the report. There was nothing particular to refer to, except the case of one of those to whom a grant had been made. It was a case where a chemist had come to grief in middle life, and one who had taken a lively interest in the Pharmaceutical Society and Benevolent Fund, which he had never failed to bear in mind when moving about the country. The case was particularly unfortunate, but it accentuated the great value of the fund.

LIBRARY COMMITTEE.

The report of this committee was read. The Curator's report dealt with the attendances at and donations to the museum, whilst the Librarian's dealt with similar matters in the library. It was recommended that some bottles be purchased for the museum, and copies of Scott's "Botany" and Squire's "Companion" be acquired for the library. It was reported also that Mr. Thomas Hanbury had placed at the disposal of the Society a number of copies of "Science Papers." The report also recommended that in future the evening meetings of the Society take place on the second Tuesdays in February, March, April, and December.

The PRESIDENT said they were all much indebted to Mr. T. Hanbury for another evidence of the interest he took in the Society in presenting a number of copies of "Science Papers." He moved that a special letter of thanks be sent for the gift. In regard to the evening meetings, at present the date fluctuated between the second or third Tuesday of the month, as they depended on the date of the meetings of the Council; it was proposed, however, in future to settle the second Tuesday of the month as the date for the meeting. The report was adopted.

The PRESIDENT announced that the

ANNUAL GENERAL MEETING

of the Society would be held on May 17, at noon. The report to be presented on that occasion was ordered to be prepared as usual.

LOCAL SECRETARIES.

Mr. Robert Gledhill was appointed for Dewsbury, and Mr. F. Stanton for Brecon.

The PRESIDENT said there was a considerable amount of enthusiasm in the Dewsbury district; meetings had been held and pains taken to make suggestions so that a suitable person might be appointed. Perhaps it was due, he added, to the fact that their Vice-President had been recently visiting that neighbourhood.

The VICE PRESIDENT said he would like to add a word to the remarks just made. It was very gratifying to him to see the interest taken in the Society at his recent visit to Bradford. He was pleased to find all parts of South Yorkshire represented, and particularly Dewsbury taking an interest in the meeting, and to find that the country generally approved of the action of the Society in extending the franchise. They (the Council) had done well to use their energies in promoting the passing of the Pharmacy Act Amendment Act.

The PRESIDENT here mentioned that Mr. Crookes, who had been their Local Secretary for Eastbourne for eighteen years, was retiring from business, and wished to be relieved from his duties. He moved that Mr. Crookes be thanked for his services, which had been of much advantage to the Society.

THE LAW AND PARLIAMENTARY COMMITTEE,

it was announced, had held a meeting, "but nothing took place that it would be of advantage to make public."

LETTERS.

The PRESIDENT said a number of letters and resolutions from local associations had been received. These included a resolution from the Liverpool Chemists' Association, passed at a meeting on December 8, approving of the poisons regulations.

The Bournemouth and District Pharmaceutical Association, while approving of the poisons regulations, thought they should apply to dispensaries.

The Dewsbury and District Chemists' Association approved of what the Council had done in sending the draft Pharmacy Bill to the Lord Chancellor.

The Exeter Association of Chemists and Druggists called attention to the danger of unqualified dispensing in doctors' surgeries. They did not approve of the repeal of the widows' clause.

The Midland Chemists' Assistants' Association, during the progress of their dinner on February 8, sent a telegram expressing their support of the Society, and calling attention to the danger of dispensing by unqualified persons.

The Derby and District Chemists' Association thought the limit of the widows' clause might be extended to three years, or at the discretion of the Council; they also called attention to the evil of unqualified dispensing.

The Midland Pharmaceutical Association approved of the draft Bill.

The North Staffordshire and District Chemists' Association called attention to unqualified dispensing.

The Glasgow and West of Scotland Pharmaceutical Association particularised the clauses of the draft Bill which they agreed with; and

The Sheffield Pharmaceutical and Chemical Society sent a resolution expressing the desirability of dividing the Minor examination so that the candidate could take any part of it at his discretion, the last moiety, however, being left till he was of age.

These communications were referred to the Law and Parliamentary Committee.

The PRESIDENT said he was glad to see the indications of interest in the suggestions which had been made to the Lord Chancellor. These suggestions covered great principles, which, in the interest of the public, should be recognised in future regulations affecting pharmacy.

A letter was read from the Charity Commissioners in reference to

CHELSEA PHYSIC-GARDENS.

Under the scheme which became operative on February 21, a representative of the Society is to be appointed. The matter came before the Council a short time ago, and they had expressed their willingness to co-operate. The President said he was satisfied that they held a good position in the scheme in being able to appoint a representative for four years.

Mr. CROSS asked if the representative was to be appointed by the Council or by the Society.

The PRESIDENT: The Council acts for the Society.

Dr. SYMES said in the Pharmacy Act the Council represented the Society after the first clause.

Mr. HARRISON thought Dr. Symes's explanation hardly covered the case in point.

Dr. SYMES said whenever the term "Pharmaceutical Society" was mentioned in minor matters it meant the Council acting for the Society.

The PRESIDENT said the Privy Council addresses the Council as the Pharmaceutical Society.

Mr. ATKINS, while not wishing to undervalue the privilege they had of appointing a member of the committee under the scheme, said it would be absurd to call together the members of the Society for such a matter of detail.

Mr. G. H. Hawtayne, Administrator-General of British Guiana, and a corresponding member of the Society, sent a copy of

AN ORDINANCE WHICH IS BEING INTRODUCED into the Legislature of the Colony, which he thought might interest them.

The PRESIDENT said he considered it satisfactory to have a copy of this Ordinance, which was under the consideration of the authorities. It would be of great interest to call attention to one or two of the provisions, because it is assumed that new Bills are up to date, and take notice of defects in Acts which have been longer in force. Clause 2, for instance, enacts that after April 1, 1899, no person shall sell or keep open shop for dispensing or selling compound drugs unless registered under this Ordinance. The name or initials of the person selling must be written on the package containing the drug. Anyone he added, can keep an open shop but he must have a qualified man to initial the packages of drug sold. "Drugs" are defined as including medicines, compound medicines, and medicinal preparations. Certain simples were exempt from the operation of the Ordinance. There is a schedule of them, which includes asafoetida, bark, camphor, carbonate of magnesia, Epsom

salts, Glauber's salts, nitre, rhubarb, and senna. The Bill was not sent for criticism, but he (the President) thought it well to call attention to these interesting points. The Board of Examiners, again, may remove names of persons from the register who are convicted of any offence against this or any other Ordinance. Registered persons are exempted from serving on juries. The poison-book may be inspected by certain officials between 8 A.M. and 4 P.M., and there is a penalty of \$24 if the book is not forthcoming. Apprentices, assistants, or shopmen must hold certificates of competence to deliver poisons. The name of the licensed person must be painted over the shop in legible letters at least an inch deep. There are certain exemptions to the Ordinance. Patent, proprietary, and homoeopathic medicines and packed drugs are exempt if the contents of the package administered in one dose are not sufficient to cause death. Another provision is that if excessive doses of poison are ordered on a prescription—and an excessive dose was defined as one that exceeds the B.P. maximum—the chemist must refer the prescription to the prescriber so that he can initial the unusual dose. Stale and unwholesome drugs are to be searched for and destroyed by certain officials. The poison-schedule contains many things which he would like to see on our schedule. Belladonna and its preparations he mentioned as one of the poisons scheduled, but in this case belladonna plasters are exempt. The Bill, he thought, would repay study, and was of very great interest to them all at the present time. After reminding his colleagues that the April meeting will take place on April 12, the President announced that that was all the public business.

Business Changes.

MR. E. O. JONES has removed his business from 41 to 47 Southside Street, Plymouth.

BOOTS (LIMITED) have opened a branch at Westminster Buildings, Regent Street, Wrexham.

MR. C. W. BOUTH, chemist, Derby, has removed from 270 Osmaston Road to larger premises at No. 242 in the same road.

MR. HERBERT WATTS, chemist, Darnall, has transferred his business to more commodious premises a few doors from his late address.

MR. W. T. TUCKER, chemist and druggist, Dartford, has removed his business from Spital Street to more convenient premises at No. 5 in the same thoroughfare.

MR. T. WILLIAMSON, chemist, Oswestry, has taken over the stock, prescription-books, and private recipes of the business lately carried on by Mrs. Turner in Church Street.

MR. J. H. APLIN, chemist, Trowbridge, has taken Mr. Frank Casson, chemist and druggist, into partnership, and in future the business will be conducted under the title of Aplin & Casson.

THE PROPRIETORS of the old-established business of W. Schacht & Co., English and foreign chemists, 26 Finsbury Pavement, E.C., have acquired the business carried on for more than half a century by Messrs. Warner & Co., pharmaceutical chemists, at 55 Fore Street, E.C., and have merged the two businesses into one. The firm will henceforth be known as Schacht, Warner & Co., with headquarters at 55 Fore Street, the Finsbury Pavement business being closed. The principals are Messrs. K. Hebbeler and H. Leins, Ph.D.

TRADE OF HAWAII.—Acting-Consul Kenny, reporting on the trade of the Hawaiian Islands for 1897, says that the United States had the bulk of the foreign trade. Drugs and medicines valued at \$55,962 were imported from the United States and \$21,971 from other countries; perfumery, toilet-requisites, &c., were imported to the value of \$14,305 from the United States and \$6,068 from other countries (Great Britain, \$2,252). For the purpose of encouraging the manufacture of all kinds of soap in the Hawaiian kingdom, caustic soda, oil of sassafras, palm oil, and borax are admitted free of duty when used in the manufacture of soap.

The Winter Session.

Pharmaceutical Society of Ireland.

AT the evening meeting of this Society, held at 67 Lower Mount Street, Dublin, on February 27, Mr. W. F. Wells (ex-President) in the chair, Mr. A. FORBES WATSON, B.Sc., the newly-appointed Examiner to the Society, gave a lecture on "The Germination of Barley: a Study in the Localisation of Enzymes." He commenced by handing round a number of cases filled with barley in various stages of growth, and proceeded to explain what the enzyme was and how it was prepared. The easiest way to prepare diastase was to cause barley to grow or germinate. To effect this the more readily the barley was moistened and spread out in a thin layer so that it might get plenty of air, due regard being had to moisture and temperature. If these conditions were observed the little roots of the barley-plant would soon begin to protrude from one end of each corn, and the plumule, or stalk, would creep up the back of the corn inside the husk, which was too strong for it to break through. The plumule having reached about two-thirds of the way up the corn, further growth was stopped by drying the germinated barley. This was best effected by dry air, of a gradually increasing temperature, not allowed to get too high, or the diastase as well as the barley would be killed. In the drying-process, the little protruding roots withered up and became easily detachable from the corn, and the contents of the corn-cob, instead of being hard and horny, were floury and sweet to the taste. These were the general outlines of the process of malting. To extract diastase from malt, it was sufficient to grind the malt into a flour and to extract the flour with cold water in which the diastase was soluble. Alcohol was added to the clear solution in sufficient quantity, and as the substance sought for was insoluble in alcohol, it separated along with other bodies of an albuminoid nature in the shape of a flocculent white precipitate. If the precipitate were allowed to settle, the clear solution passed off, the impure diastase treated with absolute alcohol to extract the water from it, and finally dried over sulphuric acid, a white substance would be obtained possessing diastatic properties, and retaining them for a considerable time. A sample of diastase prepared three years ago in the manner described was shown, and it was seen that it still possessed considerable diastatic powers. If unfermented barley were treated in the same way—that was, extracted with water and the solution precipitated with alcohol—only minute quantities of diastase would be obtained, so that it was evident that during germination there was a large increase in diastase. The term "diastatic power" meant a property possessed by some substances of an albuminoid nature of converting starch into dextrine and a sugar. The sugar had the same empirical formula as cane-sugar, and was called maltose. The limit of the action was reached when four-fifths of the starch was converted into maltose and one-fifth into dextrine. Like most enzymes, diastase was killed at about 76° C. "Killing," the name usually applied in that connection, might imply that diastase was a living thing, but it does not live in the usual sense of the word: it is a product of the living cell, as were all enzymes, but it has no organised structure, and is incapable of reproduction. The enzyme found in yeast-cells, which converts cane-sugar into a mixture of glucose and fructose, and enzyme which acts on cellulose, converting it into a sugar and perhaps other products, were also referred to. The lecture was illustrated by experiments, and by limelight views showing the structure of barley.

On the proposal of Professor TIGHBORNE, seconded by Dr. WALSH, a very hearty vote of thanks was passed to Mr. Watson for his valuable lecture.

Liverpool Chemists' Association.

A MEETING was held on Thursday, February 23, Mr. Harold Wyatt, jun., in the chair. Messrs. C. W. Cooke and J. Theckston were elected members. Mr. A. C. ABRAHAM opened a discussion on the draft of the

PROPOSED PHARMACY BILL.

Mr. Abraham thought it advisable to consider first the circumstances under which it is introduced. He said the

Pharmacy Act was obtained on an honourable understanding that the Pharmaceutical Society should frame certain "Poison Regulations." This the Society refused to do, and punished those members who thought that they should by refusing to re-elect them on the Council of the Society. His father was thrown off on this ground. Now, having been good boys, and adopted the regulations, the members were given to understand (said Mr. Abraham) that the Government will seriously think about giving us a plum to suck—mind, to suck, and not to eat. Unfortunately before we can eat this plum we have to get an important body called Parliament to approve of it. Now, if the Bill be introduced in the form suggested, I am afraid there is not much chance of their doing so. If I understand the bearings of the first, second, and third clauses they will so vitally affect such a large amount of vested interest, and, incidentally, so many influential people, that its passage is most unlikely. If Clause 2 only went so far as to prevent new sinners from invading our domain, and gave those who have a vested interest owing to their having been a lowed to break the law so long, say, fifteen years' grace, the main opposition to this clause would be removed, and there would be a chance of getting the Bill passed. With regard to the rest of the Bill I hope we shall be unanimous, although I cannot help mentioning two points—viz: (1) That the signing of a death certificate by a medical man for a patient for whom he has himself dispensed is putting him in an anomalous position. (2) That the Bill should make it very clear that the person who takes the profit of a sale is the seller. The absurdity of any other view is exemplified if we ask who is the seller of an article obtained from an automatic-delivery machine. According to the ruling of the judges it would seem that either the machine or the buyer himself is the seller.

Dr. C. SYMES (member of the Pharmaceutical Council) said the Bill as it stood would be splendid if chemists could only get it. However, one rarely gets all one asks for, and therefore it is as well to ask for enough. The Bill, he thought, should command the unanimous support of the trade. True there was a little opposition to the fifth clause, which would limit the period in which a deceased chemist's estate should be wound up. Except this chemists would like to see the whole of the Bill passed. As to company-pharmacy, he recognised that there was no law to prevent a chemist borrowing money to increase his business, and the man who lends the money cannot be sued. This was the view of the large stores, and the chemist must not hide his head in the sand, but look the matter in the face. The chemist in such a case has the right to insist upon that someone not merely a servant should have the personal responsibility in the conduct of the businesses of this nature. This constitutes a difference between company-pharmacy and the widows' clause. The original intention of the Pharmacy Act was to enable a widow to carry on the business of her late husband and realise it satisfactorily in a reasonable time. Judging from a wide and varied experience, it was better for a widow to sell within twelve months after the husband's death, as in nine cases out of ten this was much better than carrying it on for her own account. Dr. Symes did not agree with that part of the draft which deals with doctors. There was no reason why the medical practitioner of to-day should be exempt from the same restrictions as chemists with regard to poisons. He did not think that the profession would object to the cheap dispensaries being placed under the same regulations as chemists' shops. He hoped that no factious opposition would be offered on some technical points by those who could not get just their own way. If the whole Bill could be passed as it was presented, without any deduction, it would be a splendid thing for pharmacy.

Mr. T. F. ABRAHAM thought this was an opportunity to remove the anomaly that corporations could do what individuals or partners of a firm could not do. They should go to Parliament with clean hands, rejecting the principle of the widows' clause and carrying on branch-shops with unqualified assistants. He saw no objection to medical men keeping open shop—it was rather an advantage, as the public would see how much better it was to patronise the chemist. It would be disastrous to the Bill if they awoke the opposition of doctors; and as to companies, if chemists were not prepared to allow existing business of that nature to be carried on for five years the Bill would be wrecked.

Mr. JOHN SMITH (Local Secretary for the Pharmaceutical Society) was pleased by the tone of the discussion, and referred briefly to the various clauses of the Bill. He thought the alarm regarding the widows' clause unnecessary, but admitted that few chemists would surrender it without getting assurance that company-pharmacy would be stopped. It was illogical to ask for the latter without giving up the former. Speaking as to the policy of the Council, he said they could not ignore the fact that some of the writers in the pharmacy journals hold that this is nothing more than a catch-guinea move—that there is no sincerity in it. If it were so, it was little less than idiotic, and would soon be found out, to the lasting injury of the Society. He was not in the confidence of the Council, but fully believed that this was the first move of a definite policy. He sympathised with the President of the Irish Society in his complaint that the British Society had not invited the co-operation of his Society. If a common ground acceptable to both could be found a Bill would have a better chance. Probably the Irish Society could influence more votes in the House of Commons than the British Society could. He would like to see the two Societies in co-operation and agreement.

Mr. PROSPER H. MARSDEN also spoke, pointing out that the pharmacy instruction required by the medical curriculum extended to twenty hours only. This was serious, in view of the open-surgery question, and he gave instances of the slipshod manner in which dispensing is done in such places. He thought twelve months quite sufficient for the executors of a chemist to realise a business.

Mr. R. C. COWLEY (Secretary to the Federation of Pharmaceutical Associations) said if doctors' shops were touched there would be much opposition in Scotland, where there were almost as many open surgeries as pharmacies. [This may be true of the Glasgow and Greenock district, but it is not the case in Scotland generally.—*Ed. C. & D.*] He believed the Medical Council would heartily support any attempt to correct the abuse of open surgeries. He hoped the Pharmaceutical Council were settling down to hard work, and that they were not merely putting forward their suggested Bill as a sop to the trade. He wanted to know what "interfere" in Clause 4 meant. Mr. Cowley also referred to the Privy Council and examinations, pointing out the anomaly of the Council ensuring that chemists should show a high standard and allowing other dispensers to have a minimum of knowledge, also that if the examinations were to become more stringent chemists must have something in return for their trouble.

Mr. W. PEARSON said that, so far as he had come in contact with the trade, there were grave doubts as to the sincerity of the Council in the matter. There was a feeling about that this was a bid for more members for the Society.

Mr. HAROLD WYATT, jun., said the question to him was one of "rights." The doctor and the solicitor were protected in their calling, and the chemist should be protected likewise. He thought surgery-doctors ought to be stopped from keeping open shops in illegal competition with the qualified chemist. In the lower parts of Liverpool the sixpenny-shops encroached upon the chemists' and druggists' business. He knew of one such surgery where they sold surgical appliances, apparatus, &c., and this should be stopped. He considered the widows' clause was most inconsistent. Referring to Mr. Downes's letter he claimed that no slight to the Irish Society was intended when Bloomsbury Square went ahead, and pointed out that the conditions of pharmacy in the two countries were so different as to suggest individual action. As to the suggestion that the Council's action was to attract guineas simply it was absurd. Moreover, if guineas were obtained they would be used for the benefit of pharmacists generally. (Cheers.)

Mr. A. C. ABRAHAM then replied, and on his motion the following resolution was adopted:—

That this meeting hail with satisfaction the general terms of the suggested draft Pharmacy Bill, and will use its best endeavours to promote its passage through Parliament, if it should be introduced.

Mr. Harold Wyatt's paper on "Tr. Aurantii B.P." was postponed until the next occasion.

Edinburgh Chemists', Assistants', and Apprentices' Association.

THE PHARMACY OF THE B.P., 1898.

THIS was the subject of a paper read before this Association on Wednesday evening of last week by Mr. FRASER MCDIARMID, chemist to Messrs. Anderson & Co. It was a brightly-written paper, with many good points in it; but the author was unfortunate in approaching the subject nearly a year after publication of the B.P. He commenced by quoting from Dr. Balfour Marshall's report in regard to candidates' ignorance of practical pharmacy and pharmaceutical apparatus, and before the paper was done Mr. McDiarmid showed that the B.P. galenic methods for many familiar preparations are so intricate that the majority of retailers cannot possibly make the preparations; consequently apprentices will grow up who are imperfectly trained. "How many apprentices," asked Mr. McDiarmid, "will ever have the chance of preparing *vin. ipecac. ab initio*? Not many. Then why should the examiners pluck them, and Government visitors denounce them, for not showing a practical acquaintance with methods and apparatus the poor beggars have never had the opportunity of manipulating? Our up-to-date B.P. displays good pharmacy, but makes bad pharmacists, or, rather, reduces pharmacists to an elect few to be found in the big manufacturing-laboratories or in the sparsely-scattered shops of retailers who prefer to give a personal guarantee for everything that leaves their premises." This critical spirit largely dominated the paper. At the beginning he had a word to say in regard to official pharmaceutical silence on the new B.P. He said—

Public discussions of the B.P., 1898, as a whole, have not been over-numerous; one or two at Birmingham, one at Glasgow, and a curtailed debate at the B.P.C. meeting at Belfast are all that I recall just now. One does not forget the papers on special subjects read in this room, perhaps the most useful method of criticism, nor the exhaustive articles that have appeared from time to time in the *C. & D.* from the pen of J. C. Umney and others; nor the valuable *résumé* in the same enterprising journal's DIARY. What has seemed remarkable is the apparent conspiracy of silence at our headquarters. Bloomsbury Square has listened with delight, staccatoed with cheers, to the suggestion of novel methods for murdering millions with impunity to the slayer, or has dived into ocean's depths to examine "deep-sea deposits." But the present session threatens to pass without even a casual reference to a subject which jogs with us by day, nor departs in the night-watches. One recalls the full-dress debates that ensued upon the issue of B.P., 1885, when the stalwarts sharpened their weapons, and went for various galenicals. *Mais nous avons changé tout cela.* The critics of the Opposition benches now have posts in the Government.

This silence was one reason why the criticism of the work had been so meagre, but a stronger reason was that many pharmacists had seen their own little suggestions incorporated, much to their satisfaction and the general good. Mr. McDiarmid proceeded to speak upon some of the things in the B.P. that require improvement. He put some liq. caoutchouc on last May and it is not finished yet, but another batch made as Mr. Catford suggested (dissolving the indiarubber in the carbon bisulphide before adding the benzol) was finished in two days. He confirmed previous observations regarding the assay processes for ext. ipecac. liq. and ext. nucis vom., and said one of the tests for castor oil was bad. He referred to the metric system and the obstinacy of Britishers in regard to weights and measures, there still being six quarts to the gallon north of the Tweed, although south of it but four. The next point taken up was the question of making tinctures up to a pint, the author showing the meeting that the B.P. is right in its new way, which has brought it into line with other Pharmacopœias which use the maceration process. After percolation Mr. McDiarmid spoke on the concentrated-liquors formulæ in the following terms:—

The processes are extremely tedious; it takes about eight days to make a pint, or any larger or smaller quantity; in one or two cases—e.g., *chirata* and *rhubarb*—the drugs do not seem to be, possibly are not intended to be, exhausted, and the products have a great tendency to deposit, while other faults in method might be mentioned. All but one are made by slow percolation (or re-percolation) with weak spirit; the exception, *calumba*, serves for the introduction of another pharmaceutical process—viz., ex-

haustion (more or less) of the drug by maceration and pressure, without evaporation (a process recommended by Symes). Calumba is rather an unfortunate drug to select as a herald of this method—it is like attempting to get blood out of a stone, that first pressure, and the product is rather an unsightly one, taking months to clarify. I would suggest a better method—viz., exhaustion of calumba by cold percolation, evaporation of the liquid at a low temperature, preferably *in vacuo*, and the addition of the right amount of spirit. If anyone takes objection to the fact that these concentrated liquors have to be diluted with 9 parts of water instead of with 7 (to make the corresponding infusion, with which they do not correspond), let him recognise that the decimal system has come to stay.

Mr. RUTHERFORD HILL, in opening the discussion on the paper, said that notwithstanding the defence of the Pharmacopœia test for castor oil by Lucas and Umney he thought it was of very little practical value. With the samples of oil to which he had applied it the sulphuric acid gave a distinct reaction, which most people would call blackish-brown. The addition of 5 per cent. of another seed oil made no appreciable difference. The idea of an Imperial Pharmacopœia was a good deal of a fad. In the cases of ipecacanha and nux vomica he thought the Pharmacopœia had erred in setting too high an alkaloidal standard. It was not at all uncommon to meet with good samples which gave a smaller yield, and it was very difficult indeed to work the official process for fluid extract when these were encountered. The nux vomica richest in alkaloid was purchased by the alkaloid-makers, and those available for galenicals were frequently of a lower standard, though of good quality.* He had seen a sample of fluid extract of nux vomica in which there was a dirty-looking deposit, and the sides of the bottle were clotted all over with yellowish-white masses, which seemed to be of a resinous nature.

Mr. ROWLAND, who presided, confirmed these remarks regarding nux-vomica extract. He had also observed that the last portions of tincture of opium from the press were darker than the bulk of the tincture.

Mr. MCDIARMID in replying, said he did not see why the macerated tincture should not be all of the same strength if the marc were frequently and thoroughly shaken up during maceration. He agreed that fluid extract of nux vomica became very unsightly. The same happened with tincture of opium. He had recently examined a sample which contained in the bottom of a Winchester about 1 inch of deposit. Tincture of opium also varied greatly in colour from the fact that the Pharmacopœia allowed the use of any opium containing not less than $7\frac{1}{2}$ per cent. of morphine. If a rich opium was used the tincture was very light compared with a tincture made from a poorer opium. This caused much dissatisfaction on the part of purchasers, and it seemed almost as if a uniform colour should be attained by the employment of saccharum ustum.

The Chairman then presented the

DIPLOMAS AND CERTIFICATES

granted by the St Andrew's Ambulance Association to the members of the ambulance-class as follows:—Diplomas: J. G. Henderson, 93 per cent.; G. H. C. Rowland, 87 per cent. Certificates: W. Seatter, 99 per cent.; G. Somerville, 91 per cent.; A. J. Day and J. Tait, 90 per cent.; J. G. Nicolson, 88 per cent.; R. Corson, 86 per cent.; W. Anderson, 85 per cent.; A. McCutcheon, 79 per cent.; J. T. Harley, 78 per cent.

Chemists' Assistants' Association.

At the meeting held at 73 Newman Street, on February 23 a paper was read by Messrs. A. H. M. MUTE, A.I.C., and P. R. HILL, entitled "Dairy-produce." It took the form of a concise elementary explanation and demonstration of the chief processes for determining the purity of milk, butter, and cheese. A demonstration of the Leffman-Beam machine, for the determination of the fat in milk by the method of dissolving the casein in sulphuric acid and then separating the fat by centrifugal force, was given. The use of the oleo-refractometer was explained, and the constants given for butter and animal fats.

After the conclusion of the paper, a vote of thanks was accorded to the authors.

*We are informed by importers that druggists can get the richer nux vomica if they care to pay the price for it.—Ed. C. & D.

Tunbridge Wells and District Chemists' Association.

THE annual general meeting of this Association was held on February 23, when Mr. Dunkley was unanimously chosen President, and Mr. Gower (Tonbridge) Vice-President. Mr. R. A. Robinson, the retiring President, was made an *ex-officio* member of the committee, the other members elected being Messrs. Gongh, Green, and Ogle. Mr. Rogers and Mr. Hobbs were re-elected Treasurer and Secretary respectively. The Association resolved to join the Federation of Local Pharmaceutical Associations, and a vote expressing congratulation to Mr. Hobbs on his recovery from the accident met with last year was passed. The annual dinner takes place at the Mount Ephraim Hotel, Tunbridge Wells, on Thursday, March 2.

Westminster Wisdom.

RESTRICTING MERCURIALS.

The Home Office is about to issue an Order adding trades in which mercury is used to the list of those to which special regulations apply.

ERYTHROL TETRANITRATE AS AN EXPLOSIVE.

In consequence of the attention recently called to the liability of erythrol tetranitrate to explode, the Explosives Department of the Home Office is drafting a notice warning pharmacists and others as to the risk attending the handling of the tetranitrate.

THE COMPANIES BILL.

The House of Lords Select Committee on the Companies Bill held a meeting on Monday for the consideration of their report. The Lord Chancellor was in the chair, and the members present included the Earl of Kimberley, Lord James, and the Earl of Dudley (representing the Board of Trade). The proceedings were, in official language, "strictly private," but it has leaked out that a draft report submitted by the Lord Chancellor excited a good deal of discussion. His Lordship strongly holds the view that, while anything in the nature of misrepresentation in prospectuses should be rigorously repressed, it is equally inexpedient to go to the opposite extreme and enact legislation which would be calculated to deter men of substance and influence from accepting directorships. His report has, we believe, been drawn up in this sense, and he carries with him the majority of the Committee, who have had the opportunity of hearing the evidence of experts adduced during the last three Sessions. The Committee were unable, however, to come to a final agreement, and they adjourned to next Wednesday.

BEER-MATERIALS.

The report of the Departmental Committee on beer-materials was issued on Tuesday. The majority, consisting of the Earl of Pembroke (Chairman), Sir J. H. Gilbert, Dr. Jas. Bell, Professor W. Odling, and Mr. W. H. Primrose, came to the conclusion that the Board of Inland Revenue already exerts sufficient control over the brewing industry. Chemical analysis has not made it possible to detect with certainty the presence of malt adjuncts in beer, so that it would not be possible to enforce regulations for declaring their presence on the label. Supervision of the whole process of brewing would be necessary, which would entail enormous expense. The report goes on to say that at present the hop-substitutes used are harmless, and it would serve no useful end to make compulsory a declaration of their use. In regard to preservatives, none are used at present of a deleterious character, but if it should be established that any particular preservative was objectionable the Committee would trust to the vigilance of the Inland Revenue authorities, who have full power to prohibit the use of "noxious or detrimental" materials. As "chemicals" are used for hardening water, arguments against the use of chemicals are too wide. Mr. Clare Sewell Read, in a minority report, traverses the conclusions of his colleagues. He thinks the purchaser should be able to get for beer a beverage brewed entirely from malt and hops.

Festivities.

LANCASHIRE CHEMISTS AND PHARMACY LEGISLATION.

The first annual dinner of the Preston chemists was held on Thursday, February 23, Mr Hackforth, of Leyland, in the chair. Among those present were gentlemen from neighbouring towns. We give more space to some of the speeches than their intrinsic merits justify because of their amusingly extravagant character.

Mr. Arkle, in replying to the toast of "Success to Pharmacy" (proposed by Mr Stuart) said they had heard a great deal about the decadence of pharmacy, but he was not sure that the blame for this decay was not due to themselves. They had been looked down upon by every trade in the country, and instead of being regarded as a profession, they had become the butt of every trade in the country. The draper held the opinion that they were no better than he, and he filled his shop with perfumes and sold them at cost-price in order, as he put it, to demonstrate to the public what enormous profits chemists had made in the past. The draper was the last person in the world to talk about profits. He bought his collars at 3s 6d. per dozen, and retailed them at 9d. each; he purchased ladies' "gold" chains for holding muffs at 7s 6d. per dozen, and disposed of them at something like 2s. 6d. each. In his opinion the chemist had a perfect right to receive value for the education and preparation he was called upon to undergo before he could take his place in the ranks of the profession. He was a gentleman by education, and had a perfect right to a certain status in the community. To talk about the Society taking steps to secure for the chemist a larger profit was not to be entertained. No Act of Parliament could obtain that. Competition was a natural law, and nothing could put an end to it. They did not aim to put down healthy competition, but they were determined to agitate for some means to cripple illegitimate competition. They had a Pharmacy Act which they were unable to enforce. The Pharmaceutical Council had drafted a Bill containing some seven clauses, and in his opinion those clauses contained all they wanted. It was the desire of chemists to see the Legislature incorporate these clauses in the present Pharmacy Act. With the attainment of this end they would certainly feel more contented. He anticipated a stubborn fight over the widows' clause, but if the Bill was introduced to Parliament it would go before a committee, and this was some guarantee that no injustice would be done. They would like to win over to their side THE CHEMIST AND DRUGGIST. He wished the Editor would join them, but he was afraid this would never come to pass, for the reason that, if the agitation was successful in persuading chemists to become members of the Pharmaceutical Society, they would then receive their own journal free. The Editor of THE CHEMIST AND DRUGGIST could see the force of that argument, and it was to his advantage to keep the Society and its would-be members apart. He did not think the Pharmaceutical Society could be charged with "hunting after guineas," for it had carried on its work for many years with the contributions of its loyal supporters. THE CHEMIST AND DRUGGIST had certainly laid the foundation of dissatisfaction and disloyalty, and was still doing its best to fan the flame. Mr. Arkle advocated that the Society should alter the conditions of the Benevolent Fund so that a registered man who allowed himself to become the cover of a limited company should not share in its benefits. He insisted, too, that the Bill which had been promoted was not in the interests of the trade, but of the public, and the public only.

The toast of "The Pharmaceutical Society" having been proposed by Mr. Patterson, and replied to by Mr. Williamson, Mr. Freeman proposed "The Visitors," for whom Mr. Lord Gifford first replied. He said he should like to address himself to the important question of side issues and false issues affecting pharmacy legislation. An organ of free trade in pharmacy had recently criticised the North-East Lancashire chemists in a manner aptly described by the following: "When you are attacked on some question of public conduct there are three courses open to you; you may either (1) accept the challenge and fight your assailant on the issue he has raised, or (2) preserve a discreet decorous

silence, or (3) avoid the issue, trail red herrings across the scent, and invent wild fiction about your opponents. The first course was that which a man of courage would take, the second was that of a diplomatist and the third"—was that of the Editor of the well-known organ of free trade. Mr Gifford read the following paragraph from THE CHEMIST AND DRUGGIST:—

In view of the promising outlook it is surely a little unfortunate that the representatives of pharmacy in this country should have committed themselves to such unreasonable demands as are comprised in the draft Bill. The danger is that a Bill of such a character brought forward at this moment, when some influential authorities are trying to help us, may occasion some embarrassment to those who would be our friends, and will certainly be a cause of rejoicing to our enemies. Its quiet abandonment and the adoption of a more humble position behind the General Medical Council seem to be the characteristics of a prudent policy just now.

Only strong language, he said, could adequately describe such a paragraph. People who objected to pharmacy legislation knew full well that the only way to make their opposition effective was the old subterfuge of trailing red herrings across the scent. If they would only face the great question, the essential justice of their position was bound to be acknowledged. Chemists ought, by this time, to fully recognise what the Pharmaceutical Society was really fighting for. He took it they were striving to obtain a recognition of the professional character of their work, and that such work required the responsibility of the individual qualification. It was hopeless to think they could attack company-pharmacy, except on the ground of qualification. Much of the criticism now appearing was irrelevant, and even ridiculous. The position of the Council seemed to have been this. They were asked by the Lord Chancellor to suggest a satisfactory settlement, and they said exactly what they meant. How on earth could they say that less would be satisfactory? Besides, until they convinced the Legislature of the justice of their claim to professional recognition they must be hable to the arguments of free-trade principles. He could not see how a just Legislature could deny their claims in the face of the present position of chemists. It was a matter of regret to him that many chemists in the country did not seem to grasp the essential feature of the agitation. At Exeter, for instance, he noticed a resolution had been passed, to the effect that chemists must not sacrifice the widows' clause. But if the people of Exeter would only look at what the Pharmaceutical Society was really asking for—viz., the institution of a professional standing—it must follow that the qualification disappeared with the death of the individual, and that, whether it was to their interests or not, they must, if they would be logical, go in for legislation. At Nottingham, Mr. Gascoyne began splitting straws about the use of the term "medical prescriptions" in the place of "medicines." Quibbles like these surely come within the category of side-issues, which should be religiously avoided. Then, again, Mr. Bolton asserted that the Pharmaceutical Society was between the devil and the deep sea. He could not see where the relevancy of this observation came in. The Council had put forward a clear, substantial proposition. They demanded that the Legislature should recognise the conditions under which they had been tempted into the profession, only to find out afterwards that they had entered a trade. The question of medical prescriptions *v.* medicines was a very simple one. No doubt a proper definition of medicinal substances would come up for settlement afterwards. Let them only get the main principle allowed, and all the side issues and quibbles would be settled on a fair and equitable basis. At the Western Chemists' Association the other day Mr. Parker asserted that what was needed were figures and statistics in order to ascertain whether it was best for widows to sell or not. Really he could not appreciate the state of mind which asked a question of that character. Mr. Glyn-Jones, who was now exercising great activity, did not, in the speaker's opinion, appreciate the difference between trade issues and professional issues. He had addressed the Privy Council respecting the dispensing-error at Heaton Norris on the question of medical dispensing, but he ought to see, and pharmacists ought to realise, that once get a sound footing and all side questions would naturally tend to settlement. Let them remember that in fighting for them-

selves they were battling for their children and the future of pharmacy, and if they would only combine in the attack nothing in the world could stop them. (Loud applause.)

Mr. Grimshaw (Birmingham) and Mr. Pickworth also replied, and a vote of thanks to the Chairman terminated the proceedings.

LEICESTER CHEMISTS' SOCIAL UNION.

A company of about 200 chemists, their assistants, and friends assembled on Thursday, February 23, at the Dover Street School. Mr. T. Howard Lloyd was in the chair, and a varied and attractive programme had been arranged by Mr. F. W. Goodess, the Hon. Secretary. Mr. S. F. Burford, F.C.S., gave a witty and instructive lecture on "The Rhine and the Bernese Alps," which was illustrated by a number of views, Mr. Murray operating the lantern. Musical performances were subsequently rendered by Mr. Hewitt, Miss Hewitt, and Miss Rowe.

A CHEMICAL INDUSTRY DINNER AT MANCHESTER.

Mr. George Beilby, President of the Society of Chemical Industry, on the occasion of his visit to Manchester, was entertained at dinner by the members of the Manchester Section at the Albion Hotel, Piccadilly, on Friday evening, February 24. Dr. David Watson presided. There was a large attendance. The Chairman, in proposing the toast of "The President," said that, except when Sir Henry Roscoe was President, this was only the second time they at Manchester had been honoured with a visit from their President. When Mr. Tyrer came to see them he took them by surprise by appearing at one of their ordinary meetings, and they were not able to entertain him as they would otherwise have done. The Chairman, in the course of his speech, commented on the usefulness of the Society. Dr. Hewitt (Northwich) considered it would be wise for the Presidents of the Society to visit the sections in order to bind them more closely together. He had known their President for many years, but that was the first time he had met him. Mr. Beilby had done a great work in extracting ammonia from shale—a discovery that ought to make his name known all over the scientific world. Mr. George Davies having also spoken, the President replied, and, having referred to Manchester as the birthplace of the Society, said one of its original objects was that of furthering chemical engineering—the construction of chemical plant on a large scale and the establishment of lectureships on the lines of Howard and Cantor in London. It was a study worthy of the highest attention and the best efforts of the best engineers and the best chemists. This idea had grown more and more in his mind, and in the mind of others. They ought to be able to inform their universities and colleges what it was chemical-manufacturers most desired. They talked about outside competition and technical education. They needed to bring definite knowledge to bear upon the subject. Two nights ago, after speaking on the same subject in Nottingham, 100 guineas was offered at once in order to start a scheme, showing how the subject interested many people. Sir Thomas Wardle proposed "The Other Sections," to which Mr. Smetham (Chairman of the Liverpool Section) and Dr. C. A. Kohn responded.

Personalities.

MR. GWILYM EVANS, pharmaceutical chemist, Llanelly, has promised to build a public hall for the town at his own cost, provided the Council gave him the use of the market entrance for ninety-nine years.

MR. JAMES ARTHUR GIBSON, chemist, Edinburgh, has another article in the *Nineteenth Century* for March on the Nordrach cure for consumption. It is largely a reply to an article in the preceding number by Dr. Coghill, and aims to show that the treatment would be practicable in this country.

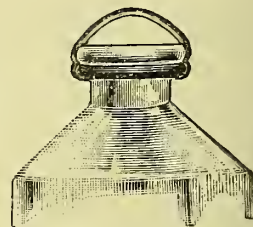
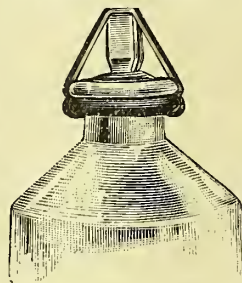
MR. WALTER GIBBONS, chemist, Market Street, Manchester, has been unanimously re-elected President of the Alexandra Park (Manchester) Conservative Association. In returning thanks for his re-appointment, Mr. Gibbons said the position he occupied had been the means of bringing him in contact with several members of Parliament. It had also enabled him to be of considerable service in pharmaceutical matters.

Trade Notes.

MESSRS. WRIGHT, LAYMAN & UMNEY intimate that they are now sending out all poisons in bottles or vessels distinguishable by touch, so that they may go directly into stock without special provision by the retailer.

MESSRS. JAMES TOWNSEND & SON, of Exeter, send us on of their "Era" series of copyright handbills for chemists' specialities, which are produced in good typographical style, and with intelligent appreciation of what is wanted. Chemists who have not seen these bills should write for a sample set.

"BOVAL" POISON-GUARD.—It is years since we noticed this simple but clever invention of Messrs. Woolley, of Manchester, for keeping stoppers in their place, and distinguishing shop-bottles containing poison from those which do not. It consists of an indiarubber ring which fits round the neck of the bottle; attached to it is an indiarubber band which



passes over the top of the stopper. When the bottle is required for use the band is moved aside, the stopper withdrawn, and the band springs back into position, as in illustration No. 2; this allows sufficient space for the liquid or powder to be withdrawn, yet acts as a check or indicator as to the nature of the contents of the bottle. The stopper-band is made in six sizes, costing from 1½d. to 5d. each, and may be obtained from Messrs. James Woolley, Sons & Co. (Limited), Victoria Bridge, Manchester.

MESSRS. PHILIP JOSEPH & SONS are preparing to make extensive alterations at 93 Old Street, and to save probable damage they are offering their present stock at reduced prices. The proposed alterations will increase the storing and show space by 3,000 square feet. The reconstruction-scheme includes new workshops in the basement, a new showroom, a complete electric-light installation, and a new frontage.

EXTRACT OF KRAMERIA with cocaine is the latest form of tabloid introduced by Messrs. Burroughs, Wellcome & Co. The object is to secure the astringent and tonic properties of krameria with the sedative action of cocaine. The tabloids are palatable, and are a useful addition to the long series of medicinal compounds in this form which Messrs. Burroughs, Wellcome & Co. manufacture for the treatment of the throat and voice.

CLEARANCE SALE.—Messrs. Marion & Co., 22 and 23 Soho Square, W., have begun a ten days' clearance sale. There are a good many cheap lines in mounts, lenses, cameras, and other photographic apparatus on offer. Many of the articles are odd lots and remainders which the firm are no longer stocking. A catalogue has been published.

OREZZA WATER.—This Corsican mineral water has been introduced into this country by Messrs. Mark Whitwill, Son & Judge, 6 St. Helen's Place, E.C. It comes to us with a good reputation, having been chemically examined in 1876, and since then many chemists and therapists have reported favourably upon it, amongst the latest being Sir Hermann Weber, M.D., who is our leading authority on mineral waters. It is a naturally carbonated ferruginous water, containing alkaline and earthy salts, with traces of manganese and arsenious acid. On the Continent it is prescribed in anaemia, chlorosis, leucorrhoea, gastralgia, dyspepsia, and general debility, and has been found useful in obstinate intermittent fevers. It has a slight sulphuretted odour. We understand that the agents are to bring it well under the notice of medical men in this country.

Marriages.

GANE—GALLAGHER.—At Brooklyn, N.Y., on February 21, **Eustace Harold Gane**, pharmaceutical chemist, and ex-Bell scholar, of Messrs. McKesson & Robbins, New York, to **Evalina Whitehead Gallagher**.

HOLT—HANDLEY.—On March 1, at Higher Broughton, Manchester, **Henry Holt**, chemist-optician, Birkenhead, to **Jessie Penelope Handley**, of Higher Broughton, Manchester.

NEIL—CAMPBELL.—At Glasgow, on February 21, **John S. Neil** to **Jessie Corbett**, younger daughter of the late Mr. J. Campbell, wholesale druggist.

PRYDE—FERRIER.—At Dundee, on February 23, **Captain Thomas G. Pryde** to **Maggie Low**, eldest daughter of Mr. D. H. Ferrier, J.P., chemist, Dundee.

Deaths.

BARRON.—At Brighton, on February 28, **Mr. Richard Bankes Barron**, senior partner of Messrs. Barron, Harveys & Co., wholesale druggists, Giltspur Street, E.C. Aged 62. By the death of Mr. Barron the London wholesale drug-trade



loses, not its oldest member, but the man who for more than a decade had virtually been at the head of it. It would be difficult to select any single characteristic in the deceased gentleman which should have placed him at the head of his craft before he was 50, and while older and more experienced men were available; but certainly in few commercial men have dignity and unswerving straightness been so strongly combined. With him at their

head, the wholesale drug-trade knew that they had a man who would always look well and act right, and latterly he was practically an autocrat in matters of policy and trade etiquette—not of his own choice, but by the wish of his friends. There has been a Barron of Giltspur Street since 1804. The first was **Robert Barron**, grandfather of Mr. Richard Barron, who was associated with and succeeded by his son **Charles**, who died on December 12, 1850, when his son **Richard** was a stripling learning the business. On January 1, 1851, the firm (then Barron & Harvey) issued a circular to their customers announcing that Mr. Richard Barron would become a partner when he came of age. Meanwhile he went through all departments of the business in Giltspur Street, working as a "hand" in every one of them, and impressing his fellow-workmen with his unswerving honesty; he was a stickler for truth. His partnership came in August, 1857, and the same month he became a freeman of the City of London. As years grew with him he took front rank in the London drug-trade, in virtue of his strong personality and the historic associations of his firm; and when the Drug Club was formed, some ten years ago, he was elected its President, retaining his position until December last, when his feeble health dictated his resignation. When that happened the whole of the members of the club (excepting Mr. E. A. Webb, who was absent abroad) signed the following letter addressed to him:—

DEAR MR. BARRON,—We, the undersigned members of the "Drug Club," desire to express to you our feeling of the great loss which the club has sustained through your resignation as its President, and, at the same time, our sorrow and regret at the cause which has rendered your action necessary.

We cannot forget that the very inception of the Drug Club was

largely due to your personal influence, and we doubt if any other member of the trade could at the time have bound together the various interests which existed among so many firms.

We hope that in withdrawing from the active business-life you have hitherto led it will be a pleasant recollection to you to know that you have the sincere respect and esteem of your competitors, who know you as a man who always upheld the best traditions of the trade, and to whom its fair fame, and that of its members, is dear.

We cannot conclude without a further expression of regret at the cessation of what has been, in many instances, a friendship of long standing, nor without expressing a hope that with greater rest and freedom from the worry of business your health may be so re-established that you may be spared for years to come to enjoy the society of your family and your many friends.

We are, dear Mr. Barron,
Yours very truly,

[Signed by forty-six principals of metropolitan and provincial drug-houses.]

Mr. Barron's first apoplectic seizure was on March 17, 1897. He had been feeling keenly the loss of his partners, Mr. Charles Harvey and Mr. Edward Harvey, whose deaths affected him greatly. He recovered from the first shock sufficiently to return to business, but had two other seizures last year, and practically gave up business on August 14. Since Christmas the break-up was rapid, and the change to Brighton was not beneficial. He passed away peacefully on Tuesday morning, and the fact became known on 'Change, where his erect and stalwart figure has been missed. Mrs. Barron, with five daughters and two sons, survives him. The sons are on the Stock Exchange. Mr. Barron was a strong Tory, and a staunch supporter of the Church of England. He had been churchwarden of Chertsey for many years. He was a member of the Court of the Grocers' Company, and a director of the Metropolitan Life Assurance Company. His death makes no change in Barron, Harvey & Co.'s business, of which the partners now are Messrs. W. L. Howie, Ralph K. Harvey, and Roger M. Harvey. The funeral of Mr. Barron will be at Lyne Church, Chertsey, on Saturday at 1 P.M. (Train from Waterloo, 11.45)

COLLINS.—At Southsea, on February 23, **Dr. William Collins**, formerly wholesale druggist, Belfast. Aged 81.

CUMNOCK.—On February 18, **Mr. John Cumnock**, chemist and druggist, Glasgow. Aged 51.

GREENVILLE.—On February 19, from hæmorrhage, **Mr. Ernest Gould Greenville**, chemist and druggist, Ryde, Isle of Wight. Aged 27.

GUNNELL.—At 30 Vane Street, Hull, **Sarah**, widow of the late **William Anderson Gunnell**, chemist, of Hull. Aged 60.

JUBB.—At Nice, on February 23, **Mr. Nathaniel Jubb**, chemist and druggist. Mr. Jubb, who was a Lincolnshire man, was engaged as English assistant for the season at the Pharmacie Süe. During the winter his health had been somewhat indifferent, but his death was not anticipated until within a day of its occurrence. He died in his arm-chair shortly after being seen by a doctor, from hæmorrhage of the lungs. The funeral, at the English cemetery, was attended by all the English assistants in Nice. Before going on the Continent Mr. Jubb had experience in the pharmacies of Messrs. Savory & Moore, Brighton; Hooper & Co, Pall Mall; and White, Buckingham Palace Road.

MURISON.—On February 7, at Aberdeen, **Mr. James Murison**, chemist and druggist. Aged 77.

PARE.—At Southport, on February 26, **Mr. Henry Burton Pare**, chemist and druggist. Aged 62. Mr. Pare was one of the oldest and best known chemists in Bolton, where he had been in business for forty years. He had several branch establishments in Bolton and district. The deceased gentleman was born at Swanington, Leicestershire. The greater part of his business-life he spent in Bolton and district, removing to Southport about ten years ago. He was a member of the Wesleyan body, and while in Bolton was circuit steward for three years, and had also served as one of the representatives to Conference.

REES.—On February 14, **Mr. Llewellyn Vosper Rees**, chemist and druggist, Nottingham. Aged 52.

SUMNER.—On February 14, **Mr. Robert Sumner**, of the firm of R. Sumner & Sons, wholesale druggists, Liverpool. Aged 72.

The Poisons Regulations.

Difficulties and Suggestions.

We offer Five Guineas in prizes for suggestions or descriptions of methods in use for the storage and sale of poisons according to the new regulations. Subscribers and their employes may compete. The competition will close on Friday, March 10.

THE excellent response in this competition threatens to encroach upon our space rather seriously, and we are compelled to close it a fortnight earlier than was our intention. Those entitled to compete will, therefore, note that March 10 is the last day of the competition. Any suggestions received bearing that postal date will rank for the prizes. We may usefully repeat the regulations approved by the Privy Council for the keeping, dispensing, and selling of poisons, the competition being in ideas as to carrying these out

1. That in the keeping of poisons, each bottle, vessel, box, or package containing a poison be labelled with the name of the article, and also with some distinctive mark indicating that it contains poison.

2. Also that in the keeping of poisons, each poison be kept on one or other of the following systems, viz.:-

(a) In a bottle or vessel tied over, capped, locked, or otherwise secured in a manner different from that in which bottles or vessels containing ordinary articles are secured in the same warehouse, shop, or dispensary; or

(b) In a bottle or vessel rendered distinguishable by touch from the bottles or vessels in which ordinary articles are kept in the same warehouse, shop, or dispensary; or

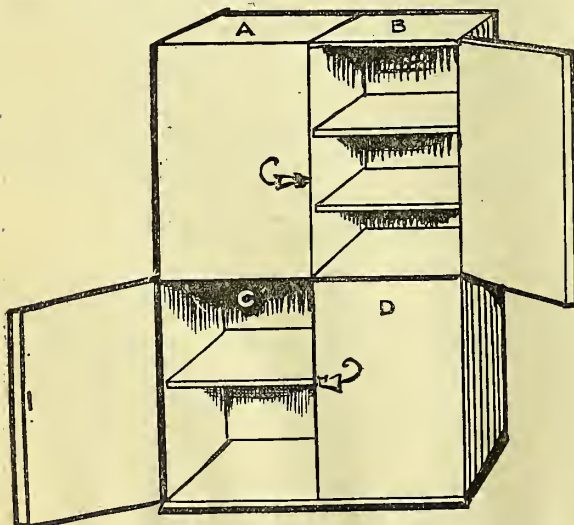
(c) In a bottle, vessel, box, or package kept in a room or cupboard set apart for dangerous articles.

3. That in the dispensing and selling of poisons, all liniments, embrocations, and lotions containing poison be sent out in bottles rendered distinguishable by touch from ordinary medicine-bottles, and that there also be affixed to each such bottle (in addition to the name of the article, and to any particular instructions for its use) a label giving notice that the contents of the bottle are not to be taken internally.

We may also repeat that competitors may send drawings or samples illustrating their suggestions from which we can have engravings prepared. The first series of suggestions appeared in our issue of February 25, page 349.

CHEAPLY-MADE POISON-CUPBOARD.

Take four "Pears' soap" or similar boxes, wash off paper, and dry them. Fit each with strips of wood to carry shelves, arranged according to height of bottles to be stored,



but do not put the shelves in till the boxes are fitted together; each box may be "ebonized" by brushing over first with a decoction of logwood, and then with vinegar in which a few rusty nails have been kept, two or three times, and

finally polishing with a little boiled linseed oil; or they may be painted. Next, fasten two (A and B in the sketch) together by their sides with $\frac{1}{2}$ -inch or $\frac{3}{4}$ -inch screws, and screw the bottoms of A and B to the tops of C and D (which have also been screwed together by their sides). Arrange the lids of each pair to open in opposite directions, as shown. Drive wire staples into the edges of the boxes, and cut slits in the lids by boring two holes at the required distance apart and cutting out the wood between them. When the lids are closed they can be secured either by wooden snibs attached by a piece of string to a tack in the lid as shown, or by wire hooks or a small padlock (if snibs are used it will be better to place the staples of the two contiguous boxes at different heights). This cabinet can either stand on a shelf, or be suspended to the wall by nails passing through slots cut in the back as shown at E, but if this is done it will be safer to nail hoop iron round the four boxes by short "closet" nails or fasten strips of wood down each side as shown by the dotted lines ending at F.

V. (193/39)

SEVERAL SUGGESTIONS.

The regulations themselves point out so many different ways of compliance that little or no difficulty should be found in putting any heterogeneous collection of pharmacy contents well within proper bounds. As a first move, the simplest and best plan is to keep all poisons together (Clause 2, system c). The sketch (fig. 1) shows this arrange-

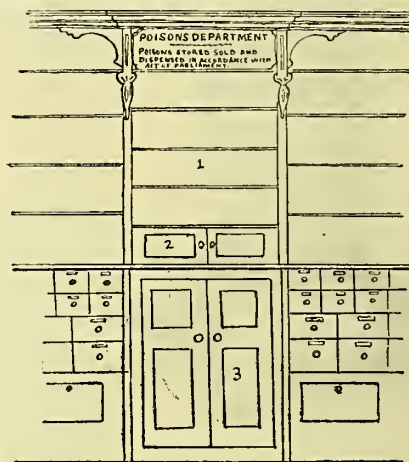


FIG. 1.

ment. A portion of the wall-fixtures is set apart, forming a "poison-room," which consists of (1) shelving for bottles containing liquids, tinctures, &c., and solids (acid, oxalic, hyd. amm., &c.); (2) a small cupboard for such articles as strychnine and other alkaloids rarely used and stocked in small quantities; (3) a larger cupboard underneath for heavy goods or stock to refill bottles above. The fittings might be made of wood different from the rest of the pharmacy, and the wall at back of shelving be painted red. A suitable tablet attracts the attention of the uninitiated, and inspires him with awe. On this tablet might also be mentioned the name and qualification or register number of the pharmacist.

In many pharmacies the everlasting "dispensing-department" glares out from the front of a screen whose hinder parts only serve as a counter for the putting up of *l'd.* goods. It is well to remember sometimes what is the net legal result of passing the examinations, and to keep this point of vantage well to the front. The "poisons-department" tablet would at least have the air of honesty and veracity. Clause 1 states: "Some distinctive mark indicating that it contains poison." What is this mark to be? Perhaps a poison-label, but to the sentimental I would suggest the Pharmaceutical Society's motto, "Habenda Ratio Valetudinis," because very few people know the meaning of it, and it may



FIG. 2.

be confined to the ranks of the genuine trade. A ribbed or fluted shop-round could be thus made to look effective (fig. 2). Southsea. THOS. POSTLETHWAITE.

BOTTLES, BOXES, LABELS, AND POTS.

The idea underlying the regulations for the keeping, dispensing, and selling of poisons is to procure by some means the conveyance of notice to the mind, through the senses of sight and touch, that the contents of the vessel or package which is being handled are of a poisonous nature. Whatever suffices to do this will fulfil the conditions.

Regulation No. 1 could be complied with by having the label of a particular colour—say red—or by adding to the name of the article the word "Poison," or one of the following equivalents of it—"Virus," "Venenum," or "Toxicum"—

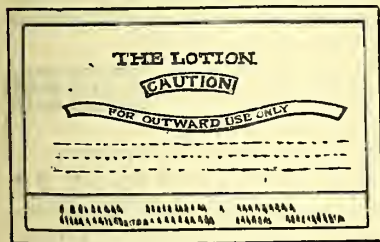


or some other agreed-upon mark, such as is figured here. This is compounded of figures representing the letters S and P,

the initial letters of the words "Scheduled Poison," and the addition of the star serves to show to which part of the schedule the particular poisonous article belongs.

Regulation No. 2 can be met by using ribbed bottles, but an objection to these is that the inside is ribbed as well as the outside, and this sometimes proves a defect. If a "direct square" or octagonal hand-bottle were obtainable in place of the ordinary shop-round it would serve the purpose and be free from the above objection. Pots fitted with a flange and groove so that the lid would require to be partially screwed round in order to remove it, or to put it on, would fulfil the conditions. Boxes could be made with a sliding lid, and secured in front by a check bar sliding in a groove, or with a hinged lid which would be secured by a clip which would be self-acting when the lid was put down, but would require to be pulled out by hand before the lid could be raised. Ordinary bottles and pots, or even casks, boxes, bags, or packages, could be secured by means of a band passed round them, and having a stud or hook fixed to the front of it, and a strap to pass over the top of the vessel, &c., attached at a point opposite the stud, to which it could be fastened by means of a loop or hook.

For dispensing liniments, &c., the ordinary fluted bottles already in use are well adapted, and the more simple they are in shape the better. Odd-shaped bottles may well be left to be used for putting up proprietary articles. For use with poisonous liniments, &c., such a label as is here shown would



be suitable. It could be printed in coloured ink, and with wide margins, which might also be coloured or rendered rough by means of some adhesive substance and sand. It could be varied by leaving out the words "The Lotion," the space

being left blank for the purpose of writing in the descriptive name, and the word "Poison" could be substituted for "Caution."

As to utilising the imposing of the regulations for business purposes, Mr. Blank, chemist, might accomplish this by issuing a circular, or having a card printed and displayed in a prominent place in his shop, setting forth that by law poisons have to be kept and sold according to certain regulations, that these are duly observed in his establishment, and that the public, in dealing with him, have the assurance of an additional safeguard in the fact that he and his assistants are registered chemists (qualified by examination), and that all the work is done under his personal supervision. No references should be made to opponents; it is folly to give them even an indirect advertisement.

Edinburgh.

C. A. MACPHERSON.

Trade-Marks Applied for.

Anyone who objects to the registration of a trade-mark must address the Comptroller-General, Patent Office, Chancery Lane, W.C., within a month of the date of publication.

(From the "Trade Marks Journal," February 15, 1899.)

SOLIO; for chemical substances used in manufactures, photography, or philosophical research. By Kodak (Limited), 43 Clerkenwell Road, E.C., manufacturers. 219,309.

Japanese picture design; for chemical substances for use in manufactures, photography, and philosophical research. By A. Karberg & Co., 5 East India Avenue, E.C., merchants. 209,310.

Design of a circular tablet and wording "STENTS"; for a dental composition. By Caroline Stent, 5 Coventry Street, W.C., dentist. 219,047.

LICERE; for cereal food for infants, invalids, and others. By J. T. O'Callaghan, South Tottenham, N., secretary to a flour-and-meal company. 219,728.

PRASANTHAM; for a food for infants, invalids, and others. By J. T. O'Callaghan, South Tottenham, N., secretary. 219,729.

"CHIRPIE" and "MERRY WIVES"; for perfumery and toilet articles. By George Watson, Newcastle-on-Tyne, merchant. 218,856 and 218,858.

(From the "Trade Marks Journal," February 22, 1899.)

"NESSOL"; for chemical substances. By Ness & Co., Darlington, manufacturing chemists. 219,340.

Devices of the heads of various animals, with wording "CERTURE" and facsimile signature. The essential particulars are the combination of devices and signature. For a powder for outward application on animals. By F. H. Rogers, Bermondsey, S.E., manufacturer. 218,261.

"ROCKET"; for chemical substances. By Chant & Co., Manchester, wholesale druggists. 219,702.

Facsimile signature; for chemical substances. By Richard Houlst, Rotherham, Yorks, manufacturer. 220,049.

Device (the essential particular) of a round label, and wording "MRS. GREEN'S WONDERFUL OINTMENT"; for an ointment. By Mary Ann Elvin and Wm. Fish, Barnsbury, N., manufacturers. 219,221.

Picture of a man in the village stocks; for chemical substances for use in medicine and pharmacy. By T. Butler, Regent's Park Road, N.W., grocer. 219,376.

"ARORA"; for chemical substances for use in medicine and pharmacy. By Hugon & Co. (Limited), Pendleton, Manchester, lard-refiners. 219,978.

Combination of devices (the essential particular) representing a bottle of Mason's essence of coffee and chicory kicking a coffee-pot and coffee-mill, with wording; for an essence of coffee and chicory. By Newball & Mason, Hyson Green, Nottingham, manufacturing chemists. 219,781.

"SOLACE"; for perfumery and toilet articles. By E. Cook & Co. (Limited), 10 Mark Lane, E.C., soap-manufacturers. 219,953.

(From the "Trade Marks Journal," March 1, 1899.)

"MAZAWATTEE"; for chemical substances used in manufactures, photography, or philosophical research; for chemical substances for use in medicine and pharmacy; for philosophical and scientific instruments and apparatus; for surgical instruments and apparatus; and for mineral and aerated waters. By the Mazawattee Tea Company (Limited), Eastcheap, E.C., merchants. 218,926, 218,928, 218,933, 218,936, and 218,565.

"Iosto"; for an anti-fouling composition. By Warner, Perry Henson & Co., Hull, composition-manufacturers. 219,345.

Device (the essential particular) representing the rising sun and the Russian characters "DEZINFETSIONALIA, SCHIDKOST DJEYES", LONDON," shown in perspective; for a liquid disinfectant. By Jeyes' Sanitary Compounds Company (Limited), Cannon Street, E.C., manufacturing-chemists. 218,513.

Combination of devices (the essential particular) consisting of three Zodiacal signs and wording "COOMANCHE," enclosed in circular label; for a cure for rheumatism, sciatica, indigestion, influenza, and other purposes. By Lydia Ingham, Colne, Lancs, medicine-vendor. 219,382.

"SANITAS" EMBROICATION

In bottles to retail at

8d., 1/-, and 2/6.

"SANITAS"

AND OTHER

DISINFECTANTS

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Amending the Sale of Food and Drugs Act.

THE Government Bill "to amend the Law relating to the
Sale of Food and Drugs," backed by Mr. Long, the President
of the Board of Agriculture, the Solicitor-General, and Mr.
T. W. Russell, the Parliamentary Secretary to the Local

Government Board, has been printed; so has Mr. Kearley's rival Bill "to consolidate and amend the Law relating to the Sale of Foods and Drugs." Briefly it may be said that Mr. Kearley's Bill aims to carry into effect pretty generally the recommendations of the Select Committee of the House of Commons, which, after taking evidence and considering the subject during three Sessions of Parliament, reported in 1896; and that the Government Bill adopts only a select few of the Committee's recommendations. Of the two we confess we prefer the official Bill. Its proposals, so far as they relate to the amendment of the Sale of Food and Drugs Act, are in the direction of justice, and a wise discrimination, we think, has been exercised in setting aside some of the more questionable proposals which the Committee suggested. Especially conspicuous for its absence from Mr. Long's Bill is the proposed Court of Reference. As its title indicates, this cumbrous piece of machinery was originally designed by the public analysts and their supporters to supplant the Inland Revenue chemists as the referees under the Act. It was found, however, that this body had done its work so well, and had secured so strongly the confidence of all parties concerned, except a section of the analysts, that there was no chance of dislodging it from the position it held. Consequently the attempt was made to gain somewhat the same object more indirectly. The Court of Reference was to be appointed mainly to agree upon standards of purity and quality. Public analysts "considered themselves prejudiced professionally" if their certificates were not confirmed by the Government Laboratory. Very likely traders would be prejudiced commercially if this Court of Reference ever got to work. When it was first proposed we asked whether its prescribed standards and processes were to have the force of law. In other words, was this Court or the Courts of Law to be supreme? Mr. Chaplin put just the same question to a deputation which waited upon him a year ago. Indeed, it is evident that the President of the Local Government Board has never taken kindly to the scheme. Mr. Kearley adopts the Board of Reference idea, and sets out its functions in considerable detail.

The Government Bill is divided into two parts. The first relates exclusively to what are described as "agricultural products," which mean milk, butter, and cheese. The principal object is to check the importation of margarine and its compounds, and tins of condensed "separated" or "skimmed" milk, without clear and definite indications of what the substances are. And power is given to the Commissioners of Customs to take samples, and to report to the Board of Agriculture, and the Board of Agriculture is to have power of authorising inspectors to take samples for analysis within the United Kingdom.

In the second part of the Bill the amendments proposed are—(Clause 12) Providing that the notice of mixture on a label shall be "not obscured," but this is not to affect the use of any registered trade-mark or of any label which has been continuously in use for at least seven years. (Clause 13) Purchasers of articles for analysis are to divide their purchase into three parts; not merely to offer to do so. (Clause 14) Second and subsequent offences to be more severely punished. (Clause 15) Purchasers are not to be entitled to require that articles in tins or packets shall be sold otherwise than in the unopened packet. (Clause 16) The present Act provides that summonses in respect of perishable articles are to be served on a defendant within twenty-eight days from the time of the purchase, and in respect of other articles within a reasonable time. It is now proposed that twenty-eight days shall be the limit in all cases; also that the summons

shall not be returnable in less than fourteen days (now seven days). A copy of the analyst's certificate is to be served with the summons. (Clause 17) Notice of a warranty defence must be given within seven days of the receipt of the notice of the purchaser's intention to take proceedings, and must specify who gave the warranty. Warranties from persons abroad are not to be available unless the defendant proves that he took reasonable steps to ascertain the accuracy thereof. (Clause 18) Justices are to send samples to the Commissioners of Inland Revenue for analysis on the request of either party. At present it is at the option of the Magistrates whether this is done or not. (Clause 19) The Commissioners of Inland Revenue are to prescribe a form of certificate, and the defendant is to have the same concession as is granted to the prosecution—namely, that a certificate of analysis (if given by a public analyst) is to be accepted as evidence. In either case, however, the other side can require the analyst to be called as a witness. Some injustice still remains in this matter. The purchaser can command the services of his local public analyst; the defendant, as was alleged in a recent trial, may have considerable difficulty in securing the services of another public analyst.

Neither in Mr. Long's nor in Mr. Kearley's Bill do we find any attempt to remedy the injustice which the Select Committee admitted of leaving a defendant who proves his innocence to pay his own costs. This, and a provision that where a question of a point of law is involved the Court should have power to order that it be contested at the public cost, are additional amendments which, as we have previously contended, ought to be added to the Bill in Committee.

Home-made or Factory-made Galenicals.

Few of us who have reached middle life can cheerfully abandon the ideals of our youth. We cannot without reluctance part from the well-preached doctrine of the duty sacred to every pharmacist worthy of the name to make his own galenicals, and never to buy them from his wholesale house. True, there always was the man who "bought everything" ready-made, even, legend hath it, his *spt. chloroformi*; but he was exceptional, and, although a wise man in the drug-traveller's estimation, was looked down upon by his brethren in the trade. He may have done as well commercially, but he certainly missed some pharmaceutical joy if he never glowed with the enthusiasm of the man who resolved at the outset of his career to have nothing to do with the factory-made article. The latter was the one who deserved success; but how few of the men like him have carried their principles through their business career! Starting, probably, with a business which before long yielded a net profit of some 200% a year, that sum was maintained for some years by hard work, and seemed to be the maximum attainable. Not sufficient to allow him to keep a qualified assistant, but, wanting help, such a pharmacist usually takes an apprentice, and lucky is the apprentice to such a master. But then comes this question of the manufacture of galenicals. The pharmacist has not time to make them himself, and entrusts their manufacture to the apprentice, exercising a nominal oversight. With each succeeding edition of the *Pharmacopœia*, and corresponding increase in the activity of the Food and Drugs Act inspectors, this procedure becomes more and more risky, until the pharmacist determines to buy his tinctures ready-made from the wholesaler, who is prepared to guarantee them of B.P. standard.

And this consummation is not entirely the result of

declining enthusiasm. The number of standardised preparations and of special tests for Pharmacopœia drugs is increasing constantly, and if a pharmacist in a moderate way of business were to attempt to make his own galenicals and faithfully standardise and test them according to the methods laid down for him in the official book, his time would be so fully occupied that he would probably soon drift into bankruptcy. There is no reason why he should not perform simple tests in the case of readily-decomposable drugs such as sweet-nitre or sal-volatile, but it seems almost suicidal to expect the average man to use up his time in testing and standardising every drug he sells. Take the standardising of ext. nuc. vom. or tr. opii. In the latter case he, perhaps, starts to make 2 pints, which may seem a tiny quantity to chemists in agricultural and fen districts, but is an average for small suburban businesses. This tincture has to be standardised, and 80 c.c. is the quantity required to be used. He must do two estimations, the one to check the other, and perhaps the results are so different that he does another estimation to check the other two. The consequence is that most of a working day has been taken up by the estimation of this one preparation. There is the question of waste also; in this case 240 c.c. of the tincture have been wasted out of a 2-pint batch. The wholesaler in making perhaps a 100-gallon batch does not require to use more for testing-purposes. Again, in testing for the essential oils, besides the physical tests, there are now many chemical ones to be performed. The polariscope is brought into use for some tests, and the pharmacist for testing the presence of menthol in his peppermint oil has to arrange a freezing mixture, he has also to fit up a fractional-distillation apparatus for his oil of lemon, and so on. If he would test his musk, to see that the ash limit is not exceeded, he must take at the least 10 gr., for which he has probably paid at the rate of 3*d*. a grain, thus using up half-a-crown's worth in applying this test, when he may only have purchased altogether a drachm of the substance. There are between 600 and 700 drugs and preparations in the Pharmacopœia to be tested in a more or less complete manner, so that it is clear that, with the best will in the world, the pharmacist in a moderate way must more and more give up his cherished desires, and submit himself more and more to the wholesale houses. Fortunately there is reason to believe that these are making honest efforts to meet the new demands on them for guaranteed standardised galenicals and drugs. We are hearing frequently of enlargements in the laboratory departments of the wholesalers, and of the continued demand for skilled labour and control which is needed by this development. It is now the usual practice for wholesale druggists to guarantee all articles they sell, and it is hardly rational for a small retailer to duplicate the tests to which the drugs have been submitted. By doing so he would only waste time and material. It is of no use to ignore the changed conditions which the requirements of the law, the discoveries of science, and the demands of medical men have brought upon us, and happily there still remains plenty of scope for the exercise of intelligence.

The Apothecaries' Assistants' Certificate.

IN pointing out recently that the Apothecaries Act (1815) does not extend to Scotland, we mentioned that the Assistants' certificate granted under it is not a statutory qualification as far as the dispensing and sale of poisons are concerned. This statement was strictly correct, but it has been misunderstood. The certificate certainly does not confer the right to sell poisons anywhere, and the mere dis-

persing of them is not an illegal act either in shops, or surgeries, or dispensaries, unless, it may be, when these are conducted by apothecaries. For according to the Act already cited (Section 17) it is not lawful for any person—except the persons then (1815) acting as assistants to apothecaries, and excepting persons who have actually served an apprenticeship of five years to an apothecary—"to act as an assistant to any apothecary in compounding or dispensing medicines" without first obtaining, after due examination, the certificate alluded to. Another section (20) renders the unqualified assistant to an apothecary liable to a penalty of 5*l*., though only the Society itself can prosecute. To the extent therefore of being a qualification for the assistants of apothecaries the certificate has a very real value, or would have if the Act were enforced in regard to it. It is also, we may mention in passing, a qualification recognised by the Local Government Board for Poor-law dispenserships in England and Wales, and by some hospital authorities. But, as we have already said, it does not authorise its possessor to "sell" any poisons, or any mixture containing poisons, either in a shop, or surgery, or a dispensary. The right to sell such substances is confined exclusively to holders of the pharmaceutical qualification.

There are provisions in the Act which show that much work was contemplated in examining assistants, as in addition to the examiners in London the Society was empowered (Section 18) to appoint five apothecaries in any county to meet in the county town monthly in order to examine assistants to apothecaries who desired certificates. The immediate necessity for these county examiners was obvious, if the provision we have quoted requiring that all apothecaries' assistants should be duly qualified as the Act set forth was to be observed.

LAY LOW AND SAY NUFFIN.

"The Law and Parliamentary Committee had met, but nothing had occurred which it would be of advantage to make public." This is the cold comfort offered to the members of the Pharmaceutical Society and chemists generally who eagerly turn to the report of the Council meeting this week to see how the precious draft Bill is getting on. But though this utterance of the President's looks obscure, "there is really no mystery at all about it, my dear Watson"—as the late lamented Sherlock Holmes would have put it. You have only to consider the circumstances, and all difficulty vanishes. It is not inconceivable that, being a polite gentleman, the Lord Chancellor has replied to the Council's suggestions. It certainly is not conceivable that, having offered to assist in promoting a measure which had a reasonable chance of passing, he should have consented to undertake any such Bill as the one proposed to him. Being a rather concise letter-writer, it is possible he may have expressed his views rather distinctly, and it is obvious that it would not be to the advantage of the Pharmaceutical Society to make all this public just now. Meanwhile, chemists' associations are declaring a robust faith in the Council's change of heart towards trade interests and its fiery determination to carry the Bill. Curiously, however, at the Liverpool meeting, where this creed was protested with special vigour, the Council representative present half excused the measure by hinting to his audience that the Council had no serious anticipation of getting all they asked for; only it was policy to ask for more than they expected in the hope of getting something.

OUR LANCASHIRE TRUMPETER.

We have liked Mr. Lord Gifford, of Blackburn, the prime author of the draft Pharmacy Bill. His vitality, his hopeful-

ness, his boundless belief in the right divine of pharmacists to want all they see, and to have all they want, have been refreshing if not practical. But it must be admitted that lately the breath of suspicion has clouded over Mr. Gifford's fair fame. It is with reluctance, but from a stern sense of duty, that we suggest to his Lancashire colleagues and followers that after all Mr. Lord Gifford is just a *C. & D.* man in disguise. The facts allow of no other explanation, Mr. Gifford's plan seems to be to select a peculiarly effective paragraph from one of our recent articles, and read it with the necessary emphasis, thus getting it republished in a new setting, and so fix it on the minds of his hearers and subsequently of his readers. True, he tacks on to it some comment describing the quotation as a lying innuendo or a red herring, but these are only rhetorical devices to more certainly direct attention to the argument. We are sorry that after this exposure we shall in all probability lose Mr. Gifford's assistance, but we heartily thank him for the aid he has given us, which we have found most useful.

BRITISH ANALYTICAL CONTROL.

In our Winter Issue we referred to the scheme which several analysts, some of them of the militant type, have started for the purpose of granting analytical certificates to proprietary foods and drinks. The scheme is much too nebulous for criticism; but it has awakened strong opposition in chemical circles, and was the subject of a discussion at the Institute of Chemistry annual meeting on Wednesday. So far the scheme merely offends professional etiquette, but there are interesting developments behind it.

"THE LAST OF THE BARRONS."

Mr. R. B. Barron, of Barron, Harveys & Co., was "the last of the Barrons," as a caricaturist once called him, connected with the London wholesale drug-trade. He was a man of imposing appearance and fine physique. We refer elsewhere to Mr. Barron's career. A certain degree of interest attaches to his firm, which goes back to 1792 (but probably earlier) when a ninety-nine years' lease was obtained of the two dwelling-houses and adjoining buildings in Giltspur Street which they still occupy. The firm names since that time have been as follows:—

- 1794. Baldwin, Hernon & Langton.
- 1795. Hernon, Langton, Harvey & Beckwith.
- 1804. Hernon, Langton, Harvey, Beckwith & Barron.
- Beckwith, Barrons & Harvey.
- Barron, Barron & Harvey.
- Barron, Barron, Harvey & Co.
- 1837. Barron, Harvey & Barron.
- Barron & Harvey.
- 1851. Barron, Harvey & Co.
- Barron, Harveys, Becket & Simpson.
- 1880. Barron, Harveys & Simpson.
- Barron, Harveys & Co.

These years represent the times at which the titles were replaced by the next succeeding them. Apart from the individual names appearing in the above, other gentlemen have been connected with the business as partners—e.g., Mr. W. L. Howie, now the senior partner. We understand that the present name is to be retained. There has been a straight line of Harveys in the business for more than a century. When the late Mr. Charles Harvey entered the firm, some fifty years ago, there were forty "hands" on the books, now there are 130.

DISCOUNT IN THE BOOK-TRADE.

Few will deny that the 2d. off the shilling, and, latterly, 3d., which booksellers have for many years been allowing to their customers, has had a strong influence in bringing about cutting of prices in other businesses—even in the drug-trade. We therefore hear with satisfaction that the Publishers' Association and the Booksellers' Association have come to an agreement regarding book-prices. In future discount

will only be allowed on retail sales of books published at 6s. or under. Higher-priced books will be sold strictly net, and it is intended that in the long run all new books will be sold at the published prices. Retail booksellers are to be required to sign an anti-cutting agreement. Since THE CHEMIST AND DRUGGIST commenced to publish books net prices have been insisted upon, and we have had little or no trouble with the arrangement. If we had charged, say, 10s. for "Pharmaceutical Formulas," and permitted the wholesale houses to have charged less, that would have been of advantage to nobody, and we believe it would in the long run have cost the users of the book more money. It is upon such lines that the 3d. in the shilling discount is apt to be worked.

SCHIMMEL CANONISED.

At a recent meeting of the Linnean Society, Mr. E. M. Holmes, Curator of the Pharmaceutical Museums, Bloomsbury Square, exhibited specimens of *Schimmelia oleifera*, a native of Venezuela, the wood of which yields West Indian oil of sandalwood. The plant, hitherto undescribed, Mr. Holmes finds to belong to a new genus of *Rutaceae*, and he has named it *Schimmelia*, after the Leipsic firm of distillers who, with considerable difficulty, procured flowering and fruiting specimens of the plant to enable its proper determination.

PEACH-KERNEL OIL.

Owing to the present high price of almonds, great impetus has been given to the importation of peach-kernel oil from the South of France. We understand that considerable quantities of this oil are finding their way into pharmacy. While there is no reason, so far as we are aware, why this cheaper oil should not be used for making proprietary and other articles such as brilliantine, it is well that retail chemists should note that the use of the oil for pharmacopœial purposes is now expressly prohibited, and if the oil be retailed as almond oil, conviction under the Sale of Food and Drugs Act is almost certain should prosecution follow a sale. One retailer has already been fined since the new Pharmacopœia was published. Peach-kernel oil is easily distinguished from true almond oil by the nitric-acid test given on page 223 of the B.P.

Institute of Chemistry.

THE annual general meeting of the members of this Society was held at 30 Bloomsbury Square, W.C., on Wednesday afternoon. The accounts for the past year, after presentation by the Hon. Treasurer (Mr. David Howard), were received, as was the Council's report for the year. Messrs. Dymond and Chapman were appointed scrutineers, and the ballot-list as drawn up by the Council was passed practically unanimously. Dr. Stevenson was re-elected President, and Mr. Otto Hehner, who has resigned the post of examiner, has been elected a Vice-President. Four censors were then elected. The names of the Fellows who had been nominated for the office were Sir Edward Frankland, Mr. A. J. Friswell, Mr. William Gowland, Mr. David Howard, Dr. W. J. Russel, and Dr. W. A. Tilden. The four elected were Dr. Tilden, Dr. Russel, Mr. David Howard, and Sir Edward Frankland. The auditors were then elected for the ensuing year. These were Messrs. F. Napier Sutton, E. G. Hooper, and E. J. Parry. The President (Dr. Thomas Stevenson) then read his address, which dealt with the usual data regarding the continued progress of the Institute, and concluded with some appropriate remarks on professional etiquette and dignity. A high tribute was paid to the services which Mr. Otto Hehner had rendered to the Institute as examiner, and some condemnatory remarks were made on the unprofessional character of certain ventures of an analytical nature. After the usual votes of thanks, the meeting terminated.

Legal Reports.

The Recovery of Penalties under the Pharmacy Act.

THE case of the Pharmaceutical Society *v.* Hogben came before His Honour Judge Lumley Smith, Q.C., on Tuesday in the Westminster County Court upon a judgment against the defendant for him to show cause why he should not be committed to Holloway for the non-payment of penalties under the Pharmacy Act for keeping an open shop for the sale of poisons, he not being a registered chemist. The solicitor to the defendant said defendant seemed to be in receipt of 35s a week only. He had paid nothing, and it seemed that he confessed judgment, but it appeared that he did not keep the shop. He was a weekly servant of Mr. Preston's. Defendant: Yes; business has been bad. His Honour: These penalties were incurred in consequence of your selling poisons. Defendant: At the time I sold it, there was a registered chemist on the premises. His Honour: Who is the proprietor? Defendant: Mr. Preston. His Honour: Why does he not pay the penalties? Defendant: He will not. Plaintiff's Solicitor: I believe that he understood the defendant was a qualified person when he engaged him. His Honour: Are you the proprietor? Defendant: No, sir; I am simply a weekly servant. His Honour: It cannot be right for you to be put forward as the person to be fined and then for you to say you cannot pay. I think Preston ought to pay. Defendant: I have a wife and five children. I offer 10s. a month. His Honour: Why was not Mr. Preston proceeded against? The Solicitor: Because he was not the defendant. We believed he was the owner of the shop. It is only within the last few hours we have been satisfied of it. Defendant: I wrote and told them, and Mr. Preston wrote and told them so. His Honour: I think as it is a public body which has to enforce the law a small order will do. I shall make an order of committal for twelve days, suspended so long as you pay 10s. a month. The first payment to be in a fortnight.

Saccharin Corporation (Limited) *v.* Anglo-Continental Chemical-works (Limited).

IN the Chancery Division of the High Court of Justice on February 24, before Mr. Justice Romer, Mr. Neville, Q.C., mentioned that there were two motions in this case, one of which was for further particulars. His opponent, however, was not in court. The motions were directed to stand over for a week.

The Alleged Imitation of Sen-Sen.

ON Wednesday, March 1, in the Chancery Division, Mr. Justice Stirling gave judgment in the interlocutory motion of the Sen-Sen Company *v.* Britten, which was argued before his Lordship on February 17, when Mr. Upjohn, Q.C., and Mr. Sebastian appeared for the plaintiff company, and Mr. Gatey for the defendant.

His Lordship said the motion was for an injunction to restrain the defendant from passing off certain goods as the goods of the plaintiffs by means of the get-up of the goods. The goods in question consisted of cachous, a medical preparation, said to be useful for the voice. Plaintiffs were an American company, who had since 1896 sent large quantities of these goods into England and sold them. The goods were made up in small packages in a certain distinctive way. They bore on them, on the top and bottom of the front portion of the parcel, the words "Sen-Sen," with "Trade-mark" under, and diagonally across the packet there was a ribbon made up in a bow. The various packages were made up in that way in different colours. In addition the packages were sold in boxes, and a striking feature in the boxes was that there was on each of the two sides a transparency, behind which was seen a placard containing a representation of three of those small packages. The defendant was agent in England for a Canadian firm or company who had recently introduced their manufacture of cachous into England. They made

up their goods in small packages of the same shape as plaintiffs'. There was at the top and bottom the word "Sante," and instead of a ribbon passing diagonally across the front of the package they had a representation of a cord which was passed lengthways and broadways across the package, with a knot in the middle. That cord was coloured, and though the colour was not of exactly the same tint it closely resembled plaintiffs' ribbon. The defendant had adopted a box also in which he sold these packages. The box was different in shape from the plaintiffs', but it contained also the distinguishing feature of a transparency on one side, and behind that there was, as in the case of the plaintiffs' box, a card containing a representation of the defendant's packages. Whether all that combination was such as might lead an unwary purchaser to purchase the goods of the defendant as being the goods of the plaintiffs was a question which must mainly be decided by the evidence, and, as usual, there was a conflict of evidence; as usual there were certain distinctions pointed out between the packages and boxes. In his judgment, looking at the thing as a whole, this was a case in which the unwary purchaser might easily be led to mistake the goods of the defendant for those of the plaintiffs. The doubt in his mind whether an injunction should be granted was occasioned by the fact, which was brought to his attention very properly by the defendant's counsel, that the plaintiffs had throughout used packages on which were the words "Sen-Sen" and "Trade-mark." As regarded the right to the words "Trade-mark" the position was this: In the plaintiffs' affidavit it was stated that the trade-mark had been adopted in America from the first, and an application for its registration in the United Kingdom was now proceeding. He took it to be the law that a trader might still acquire the right to a trade-mark in the United Kingdom by user, and that the effect of the statute as to trade-marks was not to provide that no one should have a trade-mark unless he registered it in accordance with the statute, but only that a person having such a trade-mark should not be entitled to sue in respect of it unless he had registered it. On that he referred to what was laid down by Lord Justice Cotton in the case of *re* Hudson's trade-mark in the Chancery Division, and by Lord Justice Chitty in *Barlow & Johnson*. In the 105th section of the Act it was provided that any person representing that any article sold was a patented article when it had not been patented, or described a trade-mark as registered when it was not registered, should be liable to a fine of not exceeding 5*l.* Of course if the plaintiffs were brought within the terms of that Act, they must be denied relief, and he would go further and say that, without committing an offence under that section, the plaintiffs must undoubtedly be guilty of such misrepresentation as not to entitle them to be relieved in a court of equity. But if a person said he had a trade-mark, and did not say it was registered, he committed no offence. Plaintiffs had certainly not put on the word "registered" in this case, but they used words implying that registration had been obtained. It seemed to him that the words were susceptible of the meaning that the trade-mark referred to was a trade-mark with all its rights and incidents, including the right to sue, which was simply registration, but he did not think it necessarily had that meaning. It might mean simply an intimation to a person who was intending to sell their goods or to buy them that if he intended to make sure that the goods came from them he must look and see that they contained the words "Sen-Sen" on them, which he had adopted as one of the indications by which the genuineness of the article could be ascertained. He had no evidence before him as to the effect which that representation had had upon anyone. However, with the facts he had before him he did not think there was any assumption conveyed that the trade-mark was registered. Therefore he was unable to come to the conclusion that the plaintiffs had been guilty of such misrepresentation as to disentitle them to an injunction, and, whatever might happen at the trial, he thought an interlocutory injunction should be granted. He thought the proper order would be to restrain the defendant, his servants and agents, until judgment was given in the trial, from selling, offering, or exposing, or advertising for sale, or procuring to be sold the preparation mentioned, in boxes, packages, and wrappers, in the way made use of by him, or in any other

boxes, packages, and wrappers, or other enclosures so got up and contrived as to be a colourable imitation of the plaintiffs' boxes, &c., and to lead people to suppose that they were the plaintiffs'. Costs would be costs in the action.

Mr. Gatey said his clients were not in court, and he could not say whether his Lordship's decision would be accepted as judgment on the whole case.

His Lordship said that if such a conclusion could be arrived at he would do his best to facilitate matters.

Litigation about a Chemical-contract.

THE Court of Session, Edinburgh, Second Division, on February 23, disposed of an appeal from the Sheriff Court at Glasgow in an action by John C. Steele & Co., manufacturing chemists at Port Eglinton, Glasgow, against Sir John Neilson Cuthbertson, chemical-broker, Glasgow. Pursuers said that in July, 1894, they agreed, at defender's request, to pack large quantities of ammonia-soap at certain rates, and that, in order to perform their part of the agreement, and to meet expected demands, they made additions to their plant at considerable cost and laid in a stock of labels, boxes, &c. Defender, however, did not supply the soap in sufficient quantities, and in consequence pursuers intimated that they would discontinue packing. Subsequently defender, they said, agreed to supply a sufficient quantity of soap to use up the labels and boxes, but that he had failed in that also. They therefore asked the Court to order defender to deliver 16 tons of soap in a specified time or pay 80%. Defender said that in all these transactions he had acted for the Carntyne Chemical Company (Limited), and that he made no contract with the pursuers. Sheriff-Substitute Strachan decided in favour of the pursuers, and gave them 30% and expenses. Sheriff-Principal Berry assented to the defender, and that decision the Judges of the Second Division affirmed. Lord Trayner thought it fair to say that from the outset the pursuers knew that Sir John Cuthbertson was acting on behalf of the Carntyne Company.

St. Raphael Medicinal Wine.

MR. JUSTICE KEKEWICH delivered his reserved judgment on Friday last, on the application of the Société Anonyme du St. Raphael Quinquina, of Paris, to strike off the register of trade-marks the trade-mark No. 76,170 of Messrs. Clement et Cie., of Valence, Department of the Rhone, for St. Raphael medicinal wine. The case was argued in the Chancery Division on February 21 and 22, and was reported last week.

His Lordship said much was made by counsel for the plaintiffs of the contention that the words "St. Raphael" on respondents' label were derived from a village of that name in France, and were, therefore, unfit subject-matter for a trade-mark, but in his judgment the applicants had failed to establish the geographical character of the words. The title "St. Raphael," he was satisfied, was adopted by the respondents for a very different reason. He did not base his judgment on the point whether or not the words were fancy words. The respondents took the point that these words "St. Raphael," which twice occurred in their registered trade-mark, were not added words within the meaning of section 64, sub-section 2, of the Act of 1883. The Act allowed the addition of any letters, words, or figures to the distinctive device, mark, print, heading, or label sanctioned by the preceding part of the section. He had to ask himself what was the device or label, and what were the added words? It seemed that if he struck out the words "St. Raphael" it would alter the whole character of the label, and make it something quite different to what it was now. The label, in the language of Lord Justice Chitty, did not consist of each part of the label, but of the combination of all the parts, including the words "St. Raphael." It was difficult in his Lordship's mind to see why these words were not an addition to the distinctive device or label. In his opinion the respondents were entitled to the judgment of the Court on this ground, and the summons must be dismissed with costs.

Royal Baking-powder.

IN the Court of Appeal on February 27, before the Master of the Rolls and Lords Justices Rigby and Vaughan Williams, the hearing was resumed of the appeal by Wright, Crossley & Co., of Liverpool, from an order of Mr. Justice Romer, who had granted the plaintiffs in the action brought by the Royal Baking-powder Company (Limited) an injunction restraining the defendants from issuing circulars stating that the plaintiffs were not entitled to sell baking-powder in England under the name of "Royal," and directing an inquiry as to the damages sustained by the plaintiffs by the issue of the circular.

Mr. Levett, Q.C., having continued his argument in support of the decision in the Court below,

The Master of the Rolls, without calling upon Mr. Nevill to reply, said he was of opinion the appeal ought to be allowed. The action was brought to restrain what was called a trade libel contained in a circular issued by the defendants. The Royal Baking-powder Company (Limited) had sold in this country baking-powder under the name of Royal, and they registered a label as a trade-mark, the word "Royal" being included. That mark was, however, at the instance of the defendants, removed from the register, and the plaintiffs had no reasonable ground for complaining of the circular issued by the defendants, which set forth that they were open to take proceedings against any person using the word "Royal" in connection with baking-powder as a registered trade-mark. He considered that the circular did not mean that proceedings would be taken against anyone selling Royal baking-powder in this country.

Lords Justices Rigby and Vaughan Williams concurred, and the appeal was accordingly allowed with costs.

In the action brought by the Royal Baking-powder Company v. Wright, Crossley & Co., for an injunction to restrain the defendants from selling baking-powder with the name "Royal" attached, it was stated, before Mr. Justice Byrne, that the plaintiffs were desirous of discontinuing. The action was therefore dismissed, with costs.

Sale of Food and Drugs Act.

TR. RHEI.

AT Kirkham Petty Sessions, on February 23, a shopkeeper named Taylor was charged with selling as tincture of Turkey rhubarb an article which was certified by the Public Analyst to contain no rhubarb. For the defence it was stated that the inspector who purchased the drug was informed that the sample supplied was the only "stuff" the defendant had in stock. The Bench dismissed the case.

LINIMENT OF CAMPHOR.

AT Ashford Petty Sessions, on February 28, Frederick Gutteridge, chemist and druggist, Ashford, was summoned for selling to P.C. Barnard, for Superintendent Bailey, on January 30, 6 oz. of liniment of camphor (B.P.), for which he paid 1s. 6d., and which Dr. Adams, the Public Analyst, certified to be "adulterated, because the proportion of camphor which this sample contains is only 16.6 per cent., whereas by the B.P. the proportion should be 20 per cent. The sample is therefore 17 per cent. deficient of the camphor which it should contain."

Mr. Drake, for the defence, said he pleaded not guilty in this case, although undoubtedly a technical offence had been committed. On January 25 last Mr. Gutteridge was called upon by a traveller representing Messrs. Potter & Clarke, manufacturing chemists, Artillery Lane, E.C. He gave an order for a supply of camphorated oil and other drugs. He said to the traveller, "Be quite sure and let me have them pure. They will be B.P.?" and the traveller replied, "Yes, certainly. We never supply anything else." The next they heard of them after the samples were taken was a summons. Mr. Gutteridge then wrote to Messrs. Potter & Clarke, who replied, under date of February 21, stating that they were sorry to hear that he had received a summons in reference to the liniment supplied on January 25. They added, "We are prepared to swear that it was made strictly B.P., and shall be glad if you will send us

at once $\frac{1}{2}$ lb., so that we can have an independent analysis made of it. Perhaps it will be better to send on the sealed sample which the Inspector left with you. Let us know when the case is to be heard." The defendant sent the sample that was left with him, and Mr. Potter came down on Monday and saw Mr. Gutteridge. Undoubtedly the sample, and, in fact, the whole of the stuff, was adulterated. The explanation given was that in making this liniment of camphor they had to have the right quantity of camphor, and if it was overheated some of the camphor would be lost.

Mr. Gutteridge, who was sworn by uplifting his right hand, supported the statement of his solicitor.

The Chairman (Colonel Foke): Is there a guarantee in writing?

Mr. Drake: Unfortunately, no.

Mr. Gutteridge produced a letter he had received from Messrs. Potter & Clarke, stating that the drug was made strictly B.P. He added that when the purchase was made he knew the purchaser was a policeman, and that the sample was required for analytical purposes. He knew that, because the name of the article desired was written in an official manner which the public generally did not understand. He supplied him with an article he had every confidence in, and sold it in exactly the same form as he received it from Messrs. Potter & Clarke.

The Chairman told Mr. Gutteridge that it did not matter how he bought such things; he was responsible. He would be fined 10s. and costs, in all 17. 1s.

County Court Cases.

A DEFECTIVE CARBOY OF VITRIOL.

AT Leicester County Court, on February 23, before Judge Wightman Wood, Mr. Walter Rowe, chemist, Leicester, sued O. H. Parsons & Co., soap-boilers, Leicester, for 5*l.* 4*s.* as damages sustained in consequence of the delivery by the defendants of a defective carboy of vitriol at the plaintiff's premises.

Plaintiff's foreman said that on June 2 he superintended the hoisting of a carboy of vitriol to the first floor of the plaintiff's premises. When it was about four steps up the bottom of the carboy came out and the vitriol was spilt all over the place. A lot went over his son, who was so severely injured that he had to be taken to the infirmary. Witness and the other two men who were engaged on the work were also more or less injured and their clothes damaged. He and his son had received compensation from the defendants for their injuries. The accident was due to the defective state of the iron bottom of the carboy.

Other evidence was given, and the plaintiff detailed the costs he had been put to. He was cross-examined with reference to the cost of the clothes which he said had been injured, and defendant's counsel asked his Honour to differentiate between the plaintiff's claim and the claims of the workmen, who had been satisfied. His Honour found for the plaintiff for 1*l.* 13*s.*, remarking that the case was another instance of what little value was the time of some tradespeople in the town when they could afford to come to the court to fight for 1*l.* 13*s.*

MANAGERS' PURCHASES FROM THEIR EMPLOYERS.

AT Carlisle County Court, on February 27, Messrs. T. & J. Minns, drysalters, sued their ex-manager, Mr. Patterson, for 4*l.* 0*s.* 10*d.* for goods supplied. Defendant paid 3*l.* 1*s.* 10*d.* into court and lodged a counter-claim for 10*l.* 5*s.* 4*d.* It was admitted that the items mentioned in the claim were correct, but it was urged that it was the custom of the trade to let managers have goods at cost-price. Judgment was given for the plaintiffs on the counter-claim, and for 3*l.* 3*s.* on the claim with costs.

The Castner-Kellner Alkali Company (Lim.) v. The Commercial Development Corporation (Lim.).

IN the Court of Appeal, on February 23, before the Master of the Rolls and Lords Justices Rigby and Vaughan Williams, this case was heard on appeal by the defendants from an order of Mr. Justice Bigham. The plaintiffs were the registered owners of letters patent granted to Mr. Carl

Kellner for an invention of improvements on the electrolytic apparatus for decomposing alkaline salts, and they sought an injunction to restrain the defendants from manufacturing or selling caustic soda or other alkali in infringement of their letters patent. The defendants contended, first, that the plaintiffs' patents were bad, for disconformity; and, secondly, they denied infringement.

Mr. T. Terrell, Q.C., Mr. Astbury, Q.C., Mr. McConky, and Mr. J. H. Gray appeared in support of the appeal, which was opposed by Mr. Fletcher Moulton, Q.C., Mr. Bousfield, Q.C., Mr. J. Graham, Mr. A. J. Walter, and Lord Robert Cecil.

Mr. Terrell said his clients were appealing from a judgment holding them liable for a threatened infringement, and also, he thought, for an infringement of the letters patent taken out by Kellner in 1894. The subject to which the patent applied was a very extensive trade in the manufacture of caustic soda. That was a combination of the metal sodium with oxygen, used in the arts and soap-making; and many hundreds of thousands of tons were used in a year. Caustic soda had always been made from common salt, and the problem in the manufacture of caustic soda was to get rid of the chlorine which was in combination with the metal sodium in common salt, and to substitute for the chlorine oxygen. But within recent years the process had been introduced of separating the sodium from the chlorine by the action of electricity. In this process carbon was generally used as the anode, and mercury as the cathode. A solution of salt was placed in a chamber containing mercury, and an electric current was passed through it, the effect of which was to separate the sodium from the chlorine, the latter passing away in gas and the former being absorbed by the mercury, forming an amalgam. When the mercury was fully charged the salt solution had to be removed, and the amalgam was treated with water. The sodium, having a strong affinity for oxygen, united with the oxygen of the water to form oxide of sodium, or caustic soda, the hydrogen passing away and the mercury being left pure again. The difficulty of this process was that, owing to the strong affinity of sodium for oxygen, before the amalgam could be removed from the salt solution and treated with pure water, the sodium began to go back to combine with the oxygen of the water of the salt solution. In the patents under notice this difficulty was sought to be got rid of by the adoption of a continuous process, but he (Mr. Terrell) contended that Kellner's patent was void, because though it differed from a preceding patent, Castner's, it involved no substantial invention within the Statute of Monopolies, nor was any substantial increase of utility shown over Castner's patent. The defendants' apparatus was provided with radial ribs, introduced for the express purpose of promoting agitation and circulation of the mercury. As the combining chamber rotated the mercury was forced outwards by centrifugal force to the sides of the combining chamber, which extended some way beyond the circumference of the decomposing chamber. It was found that better results were thus obtained, and that 90 per cent. of sodium absorbed by the mercury in the decomposing chamber could be collected from it in the combining chamber, whereas by Kellner's apparatus only about 50 per cent. could be collected. The plaintiffs, in order to show a difference between the Kellner and Castner patents, had to rely on the mercury being stationary. As a matter of fact, it was not; but assuming it to be so the defendants had not infringed, because in their apparatus the mercury was agitated as in Castner's.

The hearing was resumed on Wednesday and Thursday, both days being occupied with the reading of evidence taken in the Court below. The case will probably occupy the greater part of next week, Mr. Terrell, Q.C., not having yet completed his opening.

The C. A. Voegeler Company v. Hoekstra.

THE long hearing of this case was concluded, before Mr. Hemmery, Q.C., in the Official Referee's Court of the Chancery Division, on February 23. The action was brought by the proprietors of St. Jacobs Oil and Voegeler's Curative Compound, for damages against a Dutch printer, carrying on business in Holland, for breach of contract to print three million pamphlets to advertise the plaintiffs' patent medicines. The plaintiffs contended that the pamphlets were to be produced up to the standard of one called "Household Hints." The

defendant said a pamphlet entitled "On the Road to Health and Happiness" was the standard agreed upon. In the result the Referee found that the defendant had not carried out his contract on the terms arranged between the parties, and awarded the plaintiffs 250*l.* damages.

Gazette.

PARTNERSHIPS DISSOLVED.

Fish, T., and Garnett, C. A. E., under the style of Garnett & Fish, Middlesborough, mineral-water manufacturers.

Wood, J., and Swindells, G. E., under the style of James Wood & Co., Manchester, chemical-manufacturers.

THE BANKRUPTCY ACTS, 1833 AND 1890.

RECEIVING ORDER.

Howarth, Ambrose, Saffron Walden, dentist.

ADJUDICATION.

Sellon, John William Gore, Southampton, late Cardiff and Weston-super-Mare, medical practitioner.

Deed of Arrangement.

Richardson, Robert Richard, trading as the *Ægis* Company at Stanley, and as Richardson & Co. at Ridgefield, Manchester, and residing at Rwylass, Middleton, chemical and soap manufacturer. Trustee, John F. Dyson, Huddersfield, chartered accountant. Dated, February 14; filed, February 21. Liabilities unsecured, 600*l.*; estimated net assets, 1,900*l.* (No amounts given in schedule of creditors.)

New Companies & Company News

HERCULES PATENT-SOAP COMPANY (LIMITED).—Capital 150,000*l.*, in 1*l.* shares (60 000 5½-per-cent. cumulative preference). Objects: To acquire the business carried on as "The Hercules Patent-soap Manufactory" at Dean Mill, Buersil, near Rochdale, &c.

SPENCER'S STIMULINE COMPANY (LIMITED).—Capital 5,000*l.*, in 1*l.* shares. Objects: To carry on in the United Kingdom or elsewhere the business of stimuline-food manufacturers and dealers for horses, cattle, pigs, and poultry; and also as manufacturers of and dealers in the Yorkshire Challenge Sauce. Registered without articles of association.

ANTHRACENE COMMITTEE (LIMITED).—Capital 95,000*l.*, in 1*l.* shares. Objects: To adopt agreements with the 1895 Tar Products Committee (Limited) and its liquidator, with the 1897 Poolers, and with the 1898 Poolers, and to buy, sell, deal in, prepare for market, and refine anthracene. The first directors are Samuel B. Boulton, Frederick Lennard, Chas. D. T. Bushell, John G. Lyon, Samuel A. Sadler, Robert Bird, John J. Holden, Joseph B. Butler, and Edward A. Brotherton.

FRODA COMPANY (LIMITED).—Capital 2,000*l.*, in 1*l.* shares. Objects: To carry on the business of chemists, druggists, drysalts, oil and colour men, &c. The first subscribers are:—W. Spinks, 20 Park Row, Leeds, C.E.; L. Motley, 30 Great George Street, Leeds, engineer; T. Hainsworth, 32 Aberdeen Walk, Armley, Leeds, clerk; T. Naylor, 3 Regent Street, Harrogate, agent; A. C. Cronk, 100 Caledonian Road, Leeds, clerk; J. Day, 22 Whingate Grove, Armley, Leeds, clerk; A. Lupton, Bond Street, Leeds, solicitor. The first directors are L. Motley, W. Spinks, and A. E. Frodsham.

THE NORTHERN MEDICAL ASSOCIATION.—Capital 5,000*l.*, in 4,900 6-per-cent. preference and 100 deferred shares of 1*l.* each. Objects: To carry on business as principals or as agents for the purchase, acquisition, sale, or exchange of businesses or practices, or the employment of medical men or persons practising the medical profession, including physicians, surgeons, dental surgeons, chemists, druggists, pharmacists, &c., and to carry into effect an agreement with Renton and Grierson Macara, 62 Buchanan Street, Glasgow.

CLARK & SON (LIMITED).—Capital 1,000*l.*, in 1*l.* shares. Objects: To carry on the business of chemists, druggists, analytical chemists, and manufacturers of and dealers in

pharmaceutical and chemical articles, drugs, oils, fats, soaps, lozenges, pills, confectionery, aerated waters, &c. The first subscribers (each with one share) are:—Walter G. Clark, wholesale chemist and druggist, and Mrs. Clark, 19 East-borough, Scarborough; T. W. Longdin, chemist, and Mrs. Longdin, 2 Princess Street, Scarborough; J. E. Longdin, 6 Park Crescent, Bradford, manager; A. H. Knowles, Cleckheaton, wholesale chemist and druggist, and Mrs. Knowles, Cleckheaton; Herbert Smith, Cleckheaton, wire manufacturer. The subscribers are to appoint the first directors.

PANACEA SYNDICATE (LIMITED).—Capital 6,000*l.*, in 1*l.* shares (2 000 preference). Objects: To acquire the business of manufacturing and selling "Pritchard's Australian Household Panacea" (for human use) and "Pritchard's Australian Squatters' Horse and Cattle Panacea" (for cattle, horses, dogs, and other animals), carried on by E. Pritchard & Co., formerly at East Clendon, Guildford, and now at Great Bardfield, Braintree, Essex, and to carry on the business of manufacturing, wholesale, and general chemists, druggists, druggists' sundriesman, drysalts, &c. The first subscribers are:—J. H. Burrows, 116 New Oxford Street, W.C.; W. L. Green, 107 Marlow Road, Beckenham, timber merchant; A. A. Price, 84 St. John's Park, Blackheath, S.E., surgeon; A. B. Stokes, 162 High Street, Lewisham, S.E., solicitor; B. E. Troughton, 3 Lawn Terrace, Blackheath, S.E., gentleman; A. R. Layman, Railway Approach, London Bridge, S.E., auctioneer; H. Whyte, 3 Hervey Road, Blackheath, surgeon. The first directors are James H. Burrows and Herbert Whyte.

THE BRIGHTON AQUARIUM AND WINTER GARDENS (LIMITED) take power by their articles to carry on the business of chemists among many other trades.

JOHN OAKLEY & SONS.—At the meeting of this company on Wednesday, the Chairman (Mr. Herbert Oakley) said the profits of the company for the year had been 29,830*l.*, against 27,119*l.* in the previous year. A dividend and bonus making the annual distribution 12½ per cent. were declared, 8,000*l.* was carried to reserve, and 898*l.* carried forward.

PRICES' PATENT CANDLE COMPANY.—The directors report a profit for 1898 of 83,560*l.* In 1897 the profit was 77,531*l.*, and in 1896 it was 83,967*l.* A dividend of 17*s.* 6*d.* per share is recommended, making a total dividend for the year of 1*l.* 12*s.* 6*d.* per share. It is also proposed to carry 10,000*l.* to reserve. The company's invested money amounted on December 31, 1898, to 245,157*l.*

VIMBOS (LIMITED).—An extraordinary meeting of Vimbos (Limited) was held at Cannon Street Hotel on February 24. The meeting was private. It was called to consider the transfer of the company's business to Bovril (Limited). Mr. John Burn (Edinburgh) presided, and, after two hours' deliberation, the resolution was carried with the aid of proxies received by directors, a motion to adjourn the meeting for a month being defeated.

CIVIL SERVICE SUPPLY ASSOCIATION (LIMITED).—The annual meeting was held on Tuesday, Mr. R. Bannister presiding. The sales for the last half-year amounted to 873,464*l.* The gross profit was 124,997*l.*, and the working expenses amounted to 84,078*l.* Some complaint was made by shareholders that the sales were decreasing, but the chairman said the decline was only a small percentage, and it must be remembered that when the Association started the cash-system was almost unknown, and people flocked to the stores; but now that the cash-system had been extended over the kingdom many who formerly came to them went elsewhere.

THE SP. GR. OF ICE has been determined by Professor Edward L. Nichols. Natural ice was found to be 0.918, and artificial ice 0.9161.

CASH-BONUS SCHEME.—Messrs. Bovril (Limited) have recently perfected the cash-bonus scheme of which we spoke on a previous occasion. Orders received during March are to be subject to certain bonuses, which will be paid from the head office of the company. There are some conditions to be complied with by those wishing to participate, of which full particulars can be had on application to 30 Farringdon Street, E.C.

Correspondence.

In writing letters for publication correspondents should adopt a concise, but not abbreviated, style. They are requested to write on one side of the paper only. Letters,

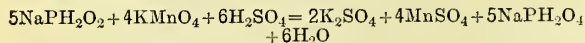
Notice to Correspondents. *with or without a nom-de-plume, must be authenticated by the name and address of the writer.*

Queries should be written on separate pieces of paper, and the regulations printed under the sections to which they apply should be strictly observed.

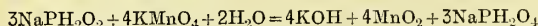
Permanganate-test for Hypophosphites.

SIR,—In a letter from Mr. Typke on hypophosphites in your last issue there are some statements regarding the B.P. permanganate-test which require modification. It is stated that in this test an excess of permanganate is used, and even with a pure sodium salt a decided red filtrate is obtained. In the course of some work on the hypophosphites—the results of which were read at the B.P.C. last year—I noticed this apparent mistake, but found that with a pure salt a perfectly colourless filtrate was obtained. The apparent excess of permanganate is required because the reaction takes place in neutral solution, and under these conditions the permanganate does not give up $2\frac{1}{2}$ atoms of oxygen, as stated by Mr. Typke, but only $1\frac{1}{2}$ atom. The reactions may be expressed by the two equations:—

1. In acid solution:



2. In neutral solution:



The amounts given in the B.P. agree fairly well with those required for the last equation.

0.5 gramme NaPH_2O_2 requires by theory 1.19 gramme KMnO_4 .

B.P. requires 1.15 gramme.

This is in accord with an observation of mine that a salt containing about 97 per cent. NaPH_2O_2 will pass the permanganate, but not the lead-acetate, test. I have repeated the permanganate-test of the B.P., with the following results:—

Using a perfectly pure sodium salt, which passed the lead-acetate test, I found—

(1) That 25 c.c. of water, as directed in the B.P., is not sufficient, and unless more water is added the paste formed bumps and boils over.

(2) The filtrate after ten minutes' boiling is quite colourless.

(3) The liquid is alkaline to test-paper.

(4) The brown precipitate formed evolves chlorine when heated with hydrochloric acid.

These facts show that the reaction proceeds according to equation 2.

Mr. Typke has probably overlooked the fact that an accurate method of assay of hypophosphites was published by me a few months ago, and by the use of that method manufacturers would be able to state the actual amount of hypophosphite contained in each batch. The permanganate method has been shown to be inaccurate and unsatisfactory by Lunan, Moeck, Amat, Tyrer, and myself. If manufacturers are unable to supply pure salts—viz., those that will stand the lead-acetate test—it would be desirable that they should indicate the percentage of impurity present.

Yours truly,

Wellcome Research Laboratory, H. A. D. JOWETT, D.Sc.
tories, 42 Snow Hill, E.C., February 28.

The Determination of Strychnine.

SIR,—I was much interested in reading Mr. T. F. Harvey's article on this subject which appeared in your journal on January 14, and particularly as he confirms my opinion expressed at the Belfast Conference that prolonged washing of the ferrocyanide precipitate causes a loss of strychnine. Mr. Harvey does not, however, say if, by using only 50 c.c. of acid wash-water, he gets his strychnine residue pure and free from brucine, although he implies that it is sufficiently so. In

some experiments I have made since reading Mr. Harvey's paper and using his method, I find that the final strychnine residues show distinct signs of being contaminated with brucine by their fused appearance, behaviour on heating, and reaction with nitric acid. Moreover they are very dark in colour. It would be interesting to hear the results obtained by other workers. I am, Sir, yours faithfully,

Exeter, February 28.

H. WIPPEL GADD.

The New Weapon against Companies.

SIR,—Messrs. Cross & Co. are posing as the champions of the legitimate trade and the enemies of the "cutters." The price-list of this firm now lies before me, in which they say:—"All we ask is a brief comparison of our list with any other published in the county, and we are quite sure that you will readily own that we are still worthy of the title we adopted when we first introduced our system in Reading—namely, the 'Pioneer' Drug-store." In another circular they say:—"Undoubtedly the old-fashioned chemists' prices were high, but Reading has nothing to complain of in this respect. It is years since a sweeping reformation in the prices of drugs, chemicals, patent medicines, surgical and sick-room requisites, &c., was made by the Pioneer Drug-stores, and to-day our price-list is a challenge to any town in England, not excluding the large London stores."

Shall we accept the championship of these "Pioneer" cutters? Messrs. Cross & Co. are evidently desirous to "run with the hare and hunt with the hounds." It seems to me that it makes very little difference to chemists whether their trade is ruined by such "parasites" as these or by companies, but, if I might choose, I would far prefer to have to deal with open enemies than with covert foes. The anxiety for the welfare of the trade professed by men who boast that they are "pioneers" in cutting, and that they cannot be surpassed, even by the large London stores, is, to my mind, positively rancorous.

I am, Sir, yours obediently,

LEGITIMATE CHEMIST. (193/62.)

SIR,—Messrs. Cross & Co. ask for proof of the assertion made in my last letter that the assistants of limited companies have more successfully contributed to the objects of the Pharmacy Act than other chemists. Presuming that it will be admitted that the object of the Act was the maintenance and benefit of the public health, I say they have contributed to the object more than other chemists:—

1. By supplying more medicines per head at prices fair to the public and remunerative to the trade.

2. By selling what is asked for instead of following the too general practice of substituting.

3. By selling fresher and purer medicines, as can be seen by consulting the statistics of the Food and Drugs Act for any given period.

4. By "sticking to their last" instead of encroaching on the sphere of medical men by prescribing.

Messrs. Cross & Co. contend that assistants do wrong in serving companies, and seek to justify their contention on the score of the interests of the community suffering, but, as I have shown, the public health is quite as well (if not better) safeguarded by the companies' assistants as by any other class of chemists. It is easy for Messrs. Cross to constitute themselves judges of their brethren, but if they expect a qualified man, say, with a family and without means, to refuse 3l. per week from a well-conducted company, and prefer 2l. 10s. from a chemist, the ethics of the "profession" will not bring about this wonderful result, but it will require a reversal of the motives which regulate human actions.

In taking the best salaries they can get these assistants are simply following the examples of members of wholesale houses who have been represented on the Council and are now leaders in pharmacy and pharmaceutical education, and who now are amongst the largest suppliers and supporters of the companies, though their support may not be always avowed because of the existing prejudice. How are these assistants wrong in following the example of their leaders? There might be some ground for Messrs. Cross & Co.'s argument if it could be shown that the chemists' business is a "profession," which it certainly is not. It is useless to think that this question will be decided in the interests of any particular section of the chemists' business. Though Messrs. Cross may not believe it, the public will very

promptly and effectually put a stop to any attempt to boycott the class of assistants whom I am defending, because the attempt, if successful, would be directly contrary to the interests of the community.

In the early years of my business career I opposed the companies as heartily as Messrs. Cross now do, but have learned by experience that it is useless to try to oppose any change by which the public get more economically and efficiently served; and that they are so served by the companies is best proved by the way in which the companies have succeeded.

As a wholesaler I find the companies quite as good customers as the private trade, and have neither prejudice against or preference for one or the other, and have only entered into this controversy because an unfair attack was made on a thoroughly efficient and worthy body of men. Do not let it be supposed that I am adverse to legislation calculated to improve the position of chemists; on the contrary, it would receive my heartiest support.

Yours faithfully,

J. LORIMER.

Government Pharmacists.

SIR,—Now that the Pharmaceutical Society are asking for more Government protection, do you not think, Sir, that now is the opportune time for the Chancellor of the Exchequer to add a new source of revenue to the Budget of the country by establishing dispensaries everywhere, after the system of the Post-office, where all medical prescriptions should be dispensed and poisonous substances sold?

Doctors would know where to send their prescriptions, and patients would have confidence in their medicines being dispensed by qualified men, those being pharmaceutical chemists only, paid by Government.

Would such a system interfere with widows of chemists or with any existing rights of trade? Chemists nowadays are almost universal providers. I have a list comprising over forty who are wine and spirit merchants, cycle agents, &c. I think you will be with me when I say dispensing medical prescriptions is not trading, and the retail of "poisonous substances" would not be a felt loss by the trade. Let the Government take the responsibility for the sale of them. More harmony and good feeling would exist. Pharmaceutical chemists as Government officials would be more respected and certain of a good salary for qualifying, and have the right to be called "professional."

These are my ideas after thirty-three years in the trade.

Yours faithfully,

BEHIND THE COUNTER. (184/32)

More Reminiscences.

SIR,—Mr. Catford's experiences as an apprentice call up memories, and suggest comparisons not wholly favourable to the present condition of the trade. True, we had to powder cantharides and ipecacuanha, make pil. rhei co. and coloc. co., which are now done for us. We made all tinctures and kept a large stock; but the chemist and druggist was much looked up to, and held a position second only to the medical and other recognised professions. The assistant was not paid so well and his hours were longer as a rule, but the average druggist in business for himself was, I venture to think, better off than his scientific successor of to-day.

Camphor costing about 1s. 9d. per lb. was retailed at 6d. per oz.; patents were sold at full price, and I think my governor—a founder of the Pharmaceutical Society—would have fallen in a fit if any one had dared to ask for a reduction. Therefore I ask myself often, What benefit has the trade derived from its higher education? Does the searching examination lead to professional fees? Is the social status raised? Has the Pharmaceutical Society benefited the chemist and druggist?

Answering my own questions, I am afraid that higher education and severe tests have only created a greater number of discontented men. No doubt the number of pharmacies decreased when the drug-stores commenced, as many established men were swallowed up by them. I have myself seen these poor fellows serving the devil, so to speak, in the same street where they had been ruined. A new generation found out how to fight the store with its own weapons, but there is some humiliation in attending meetings to try and save a profit of 1d. or 1½d. on

patents, and they cannot even secure that much. Instead of the qualification leading up to fees and public appointments, the chemist is even put out of competition for such posts as analyst. The doctor may be in business, but this does not prevent him from holding any appointment.

What is clear is the great benefit to the public at large by having men of superior professional education to work for them at half the price formerly charged. If this be so—and surely none will deny it—the pharmacist has indeed earned a position among the so-called "liberal professions." His work has benefited the people, but not him-self.

HAROLD LEENEY, M.R.C.V.S., &c.

Indian Experiences.

Mr. C. Swinn (a Manchester chemist) continues his narrative of experiences in India (see *C. & D.*, December 31, 1898) as follows:—

"I think every man in the place, bar myself, has had fever, and in connection with that disease I have established a reputation as a doctor-sahib among the factory-hands, who all come to me for medicine. I like the work and the life here very well indeed. The natives here are quite a change from an English crowd. They wear only a sort of bathing-dress, which is arranged to look like combinations, and sometimes a big piece of loose cloth over the shoulders, and a turban. It looks rather queer to see some of them marching about at night with an umbrella up. The idea, however, is to keep off the dew. Some of them wear shoes, and it is a not uncommon thing to see these shoes carried in the hand, and the man walking about barefoot. Some of these shoes are of the canal-boat description; others are wooden sandals, and are kept fixed to the foot by a peg which has a knob on it and fits between the big toe and the next one. The surrounding country is nothing but jungle and native huts. The jungle consists of all kinds of trees, but chiefly palms (cocoanut and date) and bamboos, though there is an immense variety of vegetation. I find aconite, liq. ammon. acet., and spt. æth. nit. act very well in the fever-cases, and have quite a list of cures."

SIR,—The letter in the *C. & D.* of December 31, page 1057, headed as above, is very misleading to assistants who intend coming to India. The writer is evidently in some chemical-works, which is a very different matter to being in a chemist's retail pharmacy. He had better try retail pharmacy in India and then give his experience, which will be very different. I have been in India from one end of it to the other, both as assistant and proprietor, for eighteen years, and know a little about it, and feel sure that no assistant in England, during my time in the seventies, had to work as hard as assistants in India. Mr. "Indian Experience" will change his opinion when he has been out a little longer.

Yours,

X. (117/99.)

Legal Queries.

We do not give legal opinions by post. Information regarding most legal matters in connection with pharmacy will be found in THE CHEMISTS' AND DRUGGISTS' DIARY, and in "Pharmacy and Poison Laws of the United Kingdom," and Alpe's "Handy-book of Medicine-stamp Duty."

193/42 *Chemicus*.—The new poisons regulations cannot under the Pharmacy Act be imposed upon doctors.

196/64. *Carlos* asks, "Can a man whom I engage legally hawk my advertised preparations; and, can I legally sell my advertised preparations in the market-hall on market days only?" [If by "advertised preparations" are meant "patent medicines," the reply to both questions is "No." Patent or proprietary medicines cannot be vended from waggons, &c., but must be sold from a shop, and a separate licence is necessary for every shop or set of premises. Of course, it is not essential that the shop or premises should be opened every day, and a licence might be granted for a particular stall or booth in a market-hall, or for a caravan which was practically a fixture in the same place for months.]

196/84. *Carlos*.—A wine and spirit licence can only be granted or transferred by the Licensing Justices. When such a licence is granted or transferred to a firm or company, it is usually issued in the name of a member of the firm, but the firm or company are the real holders of the licence, and may carry on the business at the licensed premises. Assuming that the licence in question has been legally transferred to the junior partner in the grocery business, and to the grocery premises, the firm can style themselves "wine and spirit merchants," and can sell wines and spirits in terms of their licence at those premises. They cannot, either themselves or as a limited company, sell wines or spirits at the chemist's shop, unless a licence is also held for that place. The question whether the limited drug company, assuming that they hold no licence, can legally style themselves "wine and spirit merchants" is a somewhat academic one. There is probably nothing to prevent them doing so. So long as no wine or spirits are sold neither the Excise nor the police is likely to interfere.

198/37. *A. O.*—The homœopathic mother-tinctures of aconite and belladonna are undoubtedly poisons within the meaning of the Act. We should not put a poison label on the dilutions in cases in which the poison could not be analytically detected.

198/39. *J. G.*—We are informed that many of the incandescent mantles hawked about the country are infringements of the Welsbach patent, and it would be illegal to use those that are. Of course we cannot say that all of them are of this character.

197/64. *Prospect*.—It has been frequently held in county courts that in the absence of express stipulation a chemist's assistant may claim and must give a month's notice to terminate his engagement. The notice depends on the custom of the trade, not on the intervals of payment.

198/10. *Sperans*.—We suppose that, strictly speaking, aqua chloroformi, B.P. 1885, is a poison. But we do not believe an unregistered person selling a medicine containing it would be convicted, and we should think it would be very foolish to prosecute him.

199/11. *Acid. Pyrogal.*—It will require exceptional reasoning to convince us that "linseed, liquorice, and chlorodyne cough-lozenges" must be retailed in a "bottle distinguishable by touch," because we are not of opinion that the lozenges are a liniment, an embrocation, or a lotion. Perhaps you might read the regulations again. They are instructive.

195/57 *London*.—It is impossible to answer your inquiry without seeing the conveyance. If the conveyance was properly drawn, nearly all the points would be set at rest. The general law is that the vendor cannot derogate from his own grant, so that everything that he could convey or ought to have conveyed practically passes to the purchaser. We should say that the faulight belongs to A and forms part of his house and that the wall of the side of the passage also belongs to him. With regard to the notice-board we should say that B's tenant was certainly entitled to put up the board. If, however, the words in the conveyance are correctly quoted, they are not very clear as to the property to which the right attaches. As, however, the passage forms practically part of the cottages or is appurtenant to them, it would be part of the letting, and the tenants of the cottages would therefore be tenants of the passage, and entitled to put up the board. All the points ought to have been considered when the contract for sale was entered into.

197/21. *C. G. B.*—There are no special fees for chemist witnesses at assizes. About 3s. or 4s. per day is usually allowed, and a modest sum for travelling-expenses. There is, however, no fixed scale, and the allowances vary in different counties. We are afraid you will get nothing in the shape of extra remuneration on account of having to employ a locum-tenens. You might, however, bring the matter before the Clerk of the Peace, with whom the matter practically rests. If you have the courage, you might before being sworn mention the matter to the Judge at the trial, but we believe the Judge has no real control over the amount of the remuneration of witnesses. He might, nevertheless, make some

remark which would have the desired effect. The Judge has power to order extra remuneration to anyone especially active in apprehending a prisoner, but there his powers probably end.

198/50. *H. W.*—The landlord's remedy against a tenant who refuses to quit premises after due notice has been given and has expired is an action for ejectment, which may be taken in a county court if the rent is not more than 50l. per annum. He may recover double rent if he gives due notice of his intention to claim it. The tenant may be liable for damages if the landlord has let the premises but cannot give possession in consequence of the tenant's conduct.

Miscellaneous Inquiries.

We reply to subscribers and their employes only upon subjects of interest to other readers generally. When more than one query is sent write each on a separate piece of paper. When a sample accompanies a query full particulars regarding the origin and use of the sample must be given, and it must be distinctly labelled. Queries are not replied to by post, and those sent anonymously are disregarded.

191/24. *Alpha*.—Carbolic Tooth-powder.—See *C. & D.*, May 7, 1898, page 772.

191/32. *C. B.*—The Liverpool Chemists' Price-list is published by Silverlock (1s.).

180/45. *Nemo*.—Spanish White is the name given to the smoothest and purest kind of chalk. Pearl white (bismuth subnitrate) is also known as Ford's Spanish white.

186/45. *Dubito*—(1) For "Chlorodyne" it is usual to dispense the proprietary article. The tr. chlorof. et morph. of the B.P. 1885 was regarded by some as a substitute, but was at best a poor representative of the real article. (2) Increase of Minor fees. See in past few numbers several replies on this subject.

189/12. *D. R.*—The young lady should consult a doctor. We do not prescribe in these columns.

180/69. *Kino*—Concentrated Poppies and Chamomiles:—

Ext. papav. ...	...	...	...	5iss.
Ext. anthem....	...	...	...	5ss.
Ol. anthem. ...	...	...	...	mvi.
Alcohol ...	...	...	...	3j.
Aq. ad... ..	...	...	...	3vj.

Rub down the extracts with 5 oz. of boiling water, and when cold add the spirit and oil, and allow to stand overnight. Then filter and bottle in ounce-bottles. One ounce to be added to a pint of boiling water to make a fomentation.

189/12. *W. R. D.*—Your query is not very explicit, but we gather that the leather is used for washers in a pumping-engine. In that capacity it is naturally liable to become soft, and we do not think any form of indurated leather would answer the purpose. One process for indurating consists in treating the leather with lime-baths and then very heavily rolling. Perhaps a preliminary soaking with silicate-of-soda solution, by making the leather water-resistant, would lengthen the life of the washers.

180/29. *E. M.*—Chemistry of Glass-manufacture.—"Glass and Silicates," by F. S. Barff, 3s. 6d. (Stanford). Or, if you have access to Thorpe's "Dictionary of Applied Chemistry," you will find the article on "Glass" a résumé of the subject.

185/58. *A. D. K.*—The phenomenal growth of Dr. Tibbles's Vi-cocoa business was mentioned in the *C. & D.*, April 2, 1898, page 553.

20/6. *C. C. H. C.*—Ionone, as supplied commercially, is a 10-per-cent. solution, and should not be further diluted for use in perfumes.

181/34. *Querist*.—(1) Lemon-peel can be dried in any of the drying-cupboards shown in *THE CHEMISTS' AND DRUGGISTS' DIARY*, 1898, page 264. (2) Lemon-juice is allowed to ferment spontaneously, a process which takes about six weeks. At the end of that time the juice is quite clear. A preservative, such as bisulphite of calcium or spirit, is often added.

188/16. *S. B.*—Sal Volatile Substitute for veterinary practice:—

Carbonate of ammonia	...	...	3j.
Strong solution of ammonia	...	...	3ij.
Volatile oil of nutmeg	...	...	℥xx.
Oil of lemon	...	...	℥xx.
Glycerin	...	...	3v.
Water to	...	...	3xl.

Dissolve the carbonate in the glycerin and water, and add the oils, well shaking, and allowing to stand for a day; then filter and add the solution of ammonia.

Dose for a horse: $\frac{1}{2}$ oz. to $1\frac{1}{2}$ oz.; pig, 1 dr. to $1\frac{1}{2}$ dr.; dog, 15 to 30 drops. In all cases diluted with water.

190/74. *Calumba*—Indigestion-powder:—

Pulv. potass bicarb.	...	...	3iv.
Pulv. sodii bicarb.	...	...	3iv.
Pulv. rhei	...	...	3ij.
Pulv. cinnam.	...	...	3j.
Pulv. zingib.	...	...	3j.

Misce bene.

An eggspoonful stirred in half a wineglassful of water to be taken three times a day, just after meals.

188/57. *Rudix*.—We have not a formula for the article you mention.

185/45. *Rabbits*.—(1) We are inquiring. (2) The "First" examination is to be discontinued after August, 1900.

190/19 *Velox*—We gave particulars of the charges usually made for the use of dark-rooms in the *DIARY* for 1896, and have repeated the main points several times since, the last time July 30, 1898, page 220.

191/29 *Neirbo*, writing from Colesberg (C.C.) asks us if we can explain the following:—Whilst he was engaged in opening a W. quart of liq. ammon. fort., B.P., the stopper, which was slightly fast, suddenly jumped out, and the liq. ammon effervesced strongly and shot out of the bottle to the height of 2 feet, half-emptying the bottle. The effervescence suddenly subsided, but recommenced suddenly, though not so fiercely the second time. The temperature at the time was 95° in the shade, and although he has opened many bottles of the same chemical before, and in the same temperature, he had never seen it behave in such a way [It is due to the difference in atmospheric pressure and the pressure inside the bottle, and has been the cause of many accidents in the case of liq. ammon. fort.]

178/6. *J. B.*—Furniture-cream.—The following modification of your formula will, we think, improve the product. You must be careful, however, to use pure waxes, for paraffin wax is sometimes found mixed with both white and yellow wax:—

White wax	...	...	4 oz.
Yellow wax	...	...	12 oz.
Spirit of turpentine	2 pints

Dissolve and mix by vigorous stirring with—

Castile soap	2 oz.
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Dissolved in—

Boiling water	2 pints.
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After stirring for five minutes, pour into w.m. bottles.

180/50. *E. S.*—Increased Minor Fee.—See *C & D.*, January 28, 1899, page 198, and February 11, 1899, page 267.

174/11. *Phenacetin*.—Tests for phenacetin are given in the B.P.

196/61. *Borax*.—Your sample of Starch-glaze is impure borax. For use a teaspoonful is dissolved in each pint of liquid starch.

8/2. *Jean*—(1) Beef-and-malt Wine:—

Extract of beef	...	...	3iv.
Extract of malt	...	...	3viii.
Port wine	...	...	℥j.

Rub the extracts down with a pint of the wine and add to the rest. Shake, set aside for fourteen days, decant, and filter the sediment.

The "yellow" extract of meat gives a superior product from a dietetic point of view, although the finished wine is not so dark as that yielded by the ordinary dark extract. (2) Coca-kola Wine:—

Coca-leaves	...	...	3iv.
Cola-nuts, bruised	...	...	3ij.
Port wine	...	...	℥j.

Macerate for a month, decant, let stand for another month, and again decant and filter the sediment.

187/6. *A. P. C.* (Italy).—By Sal Volatile in England spiritus ammoniæ aromaticus of the British Pharmacopœia is meant. This differs considerably from continental spirit of ammonia, and is flavoured with lemon and nutmeg. See the *C & D.*, April 16, 1898, page 626.

187/26. *S. C.* (Demerara).—(1) Artificial Coumarin and Vanillin do not differ in physiological action from the natural products, and are quite harmless in quantities used for flavouring purposes. We have never heard of a case of poisoning from either (2 and 3) See page 256 of *THE CHEMISTS' AND DRUGGISTS' DIARY*, 1899, for particulars regarding drawback. The manufacture of spirituous preparations is permitted by the Board of Inland Revenue on approved premises under direct supervision of an officer of the Board (for whom the manufacturer pay a consideration). No allowance is made by the Government in the case of duty-free spirit.

188/74. *Wilts.*—Concentrated Waters (1897 *DIARY*, page 264). The products from these formulæ approximate to the B.P. preparations, but are analytically distinguishable from the latter. We should never think of selling to a Sale of Food and Drugs inspector dill-water and peppermint-water made otherwise than B.P.

188/34. *St. Mungo*.—Anti-corrosion Fluid for boilers.—This consists of 10 per cent. of caustic soda and some tannin material, such as oak-bark. The use of caustic soda depends on the observation that iron does not rust when immersed in water containing caustic alkali, and upon its power of precipitating lime. The tannin is used for the purpose of precipitating iron. The use of caustic soda in boilers is forbidden by some boiler-insurance companies, as they say it has a tendency to form a soluble ferrate of iron at the surface-level of the water.

182/40. *Dukeries*.—We cannot undertake the analysis of your cough-mixture.

170/23. *Ireland*.—Veterinary-lotion.—A lotion much like your sample is made from the following recipe:—

Copper sulphate	...	...	5iss.
Lead acetate	...	...	5iss.
Zinc sulphate	...	...	5ss.
Liquid ammonia	...	...	3ij.
Water to	...	...	℥j.

Dissolve the salts separately in 5 or 6 oz. of water, mix, and add the ammonia and sufficient water to make 1 pint.

185 44. *P. W. W.*—The powder used by brewers for preserving beer is calcium bisulphite.

Information Wanted.

The Editor will be obliged for replies to the following from any who can furnish the information.

- 194/49. Where can snake-fat be obtained?
- 197/2. Who is the actual maker of vegetable crêpe?
- 201/8. Where can Telesco's Dutch drops be obtained?
- 198/61. Where can tins for nit-killer be obtained with name enamelled on lid?

Trade Report.

The prices quoted below are the bottom prices obtained for bulk quantities by importers and manufacturers, who do not supply retailers. They are in many cases exclusive of various charges.

42 Cannon Street, London, E.C.: March 2.

BUSINESS is very quiet this week. They say that quinine is responsible for it, yet the business in that is confined to speculators in Mincing Lane, who must get certain brands. Yesterday they were paying 1s. 3d. per oz. for B. & S. (which, by the way, was the official price) in the afternoon, 1d. having been put on it, when plenty of B.P. quinine sulphate could be had at 1s. 1d. per oz. To-day 1s. 3½d. is the highest price paid. The Java report for February gave strength to the market, the above move being the first expression of it, and 1s. 6d. for German sulphate is a dreamt-of price this month. On the other hand ipecacuanha is easier owing to a large arrival of Rio root.

The cinchona-sales on Tuesday were brisk, and the prices obtained were about 10 per cent. above the Amsterdam rates a fortnight since. Since then private business has been done at 20 per cent. advance.

Senna and vanilla were publicly offered to-day. The vanilla was a heavy sale, and included a string of Tahiti pods repacked to look like Bourbon, the ends of the bundles having been dipped in a solution of vanillin or cinnamic acid to give them a crystalline appearance. This is a "fake" which does not deceive experts, and for which the brokers are in no way responsible; but it should certainly be discouraged. The show of vanilla as a whole was very fine, and the prices obtained were good.

The following are the principal changes this week:—

Higher	Firmer	Lower
Cinchona	Ammonia sulphate	Canary-seed
Henbane (biennial)	Caraway-seed	Cinnamon
Quinine	Cotton and linseed	Citrate of lime
Soda, nitrate	cakes	Galls
Turpentine	Cream of tartar	Ginger (Cochin)
	Oil, cotton	Ipecacuanha
	Oil, rape	Lemon-juice (conc.)
	Vanilla	Oil, cloves
		Oil, star-anise

Among the arrivals this week up to Wednesday were:—Aloes (E.I.), 4; balsam copaiba, 18; buchu, 40; chamomiles, 23; cinchona, 81 (Ceylon) 37; coca-leaves (Ceylon), 6; cardamoms, 150; cascara sagrada, 41; gentian, 20; gum myrrh, 57; ipecacuanha (Rio), 69; nux vomica (E.I.), 1,008; oil, castor, (E.I.), 300; oil, citronella (drums), 62; oil, cod-liver, 322; oil, eucalyptus, 22; oil, peppermint, 65; opium, 65; quicksilver, 5,000; rhubarb, 24; sarsaparilla, 34. The more important arrivals in Hamburg have been:—Cloves, 3,229; beeswax, 130; camphor, 200; and galls (Chinese), 200.

Uganda Aloes.

Amongst this week's arrivals is a parcel of very fine hepatic aloes from British East Africa, whence we have not obtained aloes before, and the parcel is of so fine quality that it is to be hoped that we may have regular supplies in future. The aloes is of the hepatic variety, is hard, pale, and of exquisite aroma. A portion of the consignment is in broken cakes about 1 inch thick, with good conchoidal fracture, and yellowish-brown colour. The rest is in coarse powder. The whole consignment weighs 2 to 3 cwt., and is denoted by a crown brand.

Cablegrams.

HAMBURG, March 2, 12 6 P.M.:—Carnauba wax is firmer but refined camphor is stationary at 350m. per 100 kilos. Quinine has advanced ½m, the price now being 38½m. per kilo. Lycopodium is quoted at 250m. per 100 kilos.

* * * *

BERGEN, March 2, 11 55 A.M.:—The cod-fishing still proceeds slowly, but during the past week there has been considerable improvement, the week's catch being 2 450,000, against 1,520,000 in the same week last year, the total from the beginning being 3 878,000, against 2,889,000 in 1898. The livers will yield 3,800 barrels of medicinal oil, against 2,625 barrels last year. These results have naturally weakened the market considerably, and new medicinal oil is quoted at 60s. per barrel, f.o.b.

* * * *

NEW YORK, March 2, 3 18 P.M.:—The market is generally active, and quinine is still advancing, the price being now 28c. per oz. Opium is falling: \$3.05 is the latest quotation. Cascara sagrada is higher, 7½c. being wanted; buchu is scarce, at 14c. New Jamaica ginger is lower, 12c. being the closing figure. Norwegian cod-liver oil is quoted at \$22 per barrel. Hydrastis-root is scarce at 70c.; camphor is firm at 45c. Mexican sarsaparilla is scarce at 11c.; and Rio ipecacuanha is firmer, \$3 25 per lb. being the price.

Tea Market.

The very strong statistical position of Indian tea, commented on a month ago, was bound to lead to firmer quotations for lower grades. But when, early in February, it was realised that exports from Ceylon available for the United Kingdom would be on a much smaller scale than was anticipated, a sharp rise was inevitable, and prices for commoner sorts jumped something like 1½d. per lb. in a fortnight; Indians, Ceylons, and Congous alike. It is generally understood that some of the big blenders and packet firms have been caught with rather smaller stocks than they would have liked, and a big market business has been done: anything decent in leaf or leafy broken tea under 7d. being quickly snapped up. Figures of deliveries for consumption and export during February are again very good, and it is difficult to see how the market can be relieved for teas under 7d. before July, commonest Congou even being in strong demand at 5½d. per lb., and very little of that to be had. Fine Indians have, as is always the case when common tea is excited, been quite neglected, and wonderful value is to be had in Pekoes and Orange Pekoes from 10d. to 1s. 3d., and in broken and broken orange pekoes from 1s. to 1s. 6d.; teas that are bound to be wanted at more money later on.

Heavy Chemicals.

[These prices are for market-centres other than London.]

The lately-reported steadier and better feeling still continues prevalent in the heavy-chemical market. On the Tyne, business passing is heavier, and, if prices do not actually show any advance, the tendency towards reductions seems to have gone by. In the Lancashire district matters have a very healthy tone; whilst on the Clyde an apparent general improvement has taken place. Home-consuming trades are, for the most part, well employed, and the general demand for miscellaneous products is well up to the average. Paper-makers have lately been very busy. Dyers, calico-printers, and bleachers keep working full time. Carpet-manufacturers are well supplied with orders, especially in the Kidderminster district, where some are working overtime. As is usual at this period of the year, the colour and paint trades are not in a very active condition; still, a fairly good all-round business is being transacted. Soapmakers are busy, and glass and pottery makers, taking all things into consideration, have little to complain of.

ALKALI PRODUCE.—Bleaching-powder continues in good demand, both for home and export, and the improvement in price is well maintained. Caustic soda keeps very steady, and is moving better. Soda crystals are in heavier demand; and saltcake now stands at 30s. to 32s. 6d. per ton, free on rails, in bulk.

SULPHUR.—Recovered is rather scarce, and keeps firm at 47. 12s. 6d. to 51., free on rails.

SOUTH DURHAM SALT.—Very steady and in request, at 9s. 6d. per ton, f.o.b. Tees.

GREEN COPPERS is in better inquiry again, and is firm. Best Lancashire makes, 42s. to 43s., f.o.b. Liverpool.

SULPHATE OF AMMONIA has taken a firmer tone again, and is from 5s. to 6s. 3d. per ton higher than our last quotations. Exports from Leith last week amounted to 266 tons.

COTTON AND LINSEED CAKES.—Firm. Cotton, seconds 47. 15s., and best makes 47. 17s. 6d. to 51. Linseed, 95 per cent. pure, 71. 17s. 6d. to 81. 5s. Oil-cakes, 67. 17s. 6d. to 71. 2s. 6d.

Liverpool Drug-market.*Liverpool, March 1.*

CASTOR OIL.—Steadiness has marked the spot market during the week, and good seconds Calcutta are still held for 21½*d.* per lb., at which sales are being made. First pressure French is still quoted at 2½*d.*, but for forward delivery prices are somewhat easier. Second pressure French is held for 2¼*d.*, and Madras good seconds at the same figure.

GINOER, AFRICAN, is selling to arrive at a shade under the prices recently asked, and consequently the spot price is easier at 22*s.* 6*d.*

BEESEX is practically a bare market now for Chilian. Sales have been made during the week of parcels just arrived at 7*l.* 15*s.*, 7*l.* 10*s.* and 7*l.* 2*s.* 6*d.*, according to quality, and at the last-named price a considerable quantity changed hands. Sales of Gambier, namely 24 bales and 3 bales are reported at 6*l.* 12*s.* 6*d.*, and for Sierra Leone 6*l.* 5*s.* is asked.

QUILLAIMA-BARK.—Salos from the quay are reported at 16*l.* per ton in quantity.

GUM ACACIA.—Sales have so depleted stocks here that only one grade is available, and that at 70*s.* per cwt., but further arrivals are expected.

SCAMMONY-ROOT.—Fifty-nine bales which have been lying here for some time have at last changed hands, but the price (understood to be low) has not transpired.

HONEY.—Sales of low pile II. have been made at 22*s.*, and the other grades of Chilian are held at late values. The high prices of Californian are preventing any pronounced movement, but 25 cases of fine are reported sold at 40*s.*

German Drug-market.*Hamburg, February 23.*

Our drug-market does not show much business as yet, and only a few articles, such as camphor, citric acid, and quinine, have shown any activity this month.

CAMPHOR (REFINED) continues firm at 250*m.* per 100 kilos, although there is little business.

CASCARA SAGRADA is very firm and scarce; holders ask 70*m.* to 75*m.* per 100 kilos.

CONDURANGO-BARK is more freely offered, at 70*m.* per 100 kilos.

STAR-ANISE is firmer, at 210*m.* per 100 kilos.

CITRIC ACID.—Second-hand sellers quote 280*m.* to 277½*m.* per 100 kilos.

ERGOT OF RYE is in larger supply; spot 200*m.* to 190*m.* per 100 kilos.

IPECACUANHA is very firm: Cartagena, 17*m.* per kilo.; Rio not offered.

QUININE remains firm at 38*m.* per kilo. in second hands.

WAX (JAPAN) is firm on the spot at 61*m.*, and for shipment 60*m.* per 100 kilos.

CARNAUBA WAX advanced, to-day's quotation being 77½*m.* to 125*m.* per 100 kilos, according to quality.

COD-LIVER OIL.—Quiet and unchanged.

American Markets.*NEW YORK, February 18.*

General business in the drug-line continues good, and prices are still moving upward.

ALOES, CURACAO.—The quotations are slightly lower at 3¼*c.* to 4*c.* per lb.

CAMPHOR continues to move upward in sympathy with foreign conditions. Domestic refined is now quoted at 44*c.*, and Japanese 44*c.* to 47*c.*

CASCARA SAGRADA continues strong at 6½*c.* to 7½*c.*, according to age and quality. No lower figures can be expected before next season's arrivals.

COCA-LEAVES continue fairly active, and prices rule strong at 20*c.* for Truxillo and 24*c.* for Huanuco.

ERGOT is easier, in sympathy with foreign conditions. German is quoted at 29*c.* to 33*c.*, and Spanish 35*c.* to 40*c.*

GOLDEN SEAL is very scarce on the spot, and prices have taken a sharp advance, 60*c.* is now asked with limited offerings, and 55*c.* is quoted to arrive.

JALAP is easier, and 10½*c.* to 12*c.* will buy, according to quality and holder.

PARAIRA BRAVA is higher, 10*c.* to 15*c.* being asked by holders.

QUININE is active, and prices are strong at the recent advance. In expectation of further advance, holders offer very sparingly.

PINK-ROOT (SPIGELIA) is scarce, and quotations have advanced to 19*c.* to 20*c.*

PEPPERMINT OIL is now active, and reports from the growing districts indicate a firmer tendency. Western is firm at 80*c.* to 90*c.*, and Wayne County at 90*c.* to \$1.05.

London Markets.

ACID, CHRYSOPHANIC (Chrysarbin).—Prices have been reduced of late owing to the good supply of araroba; a well-known brand is obtainable at 8*s.* 6*d.* per lb. in 7-lb. parcels.

ACID, CITRIC, is slightly easier, and quiet at 1*s.* 3½*d.* to 1*s.* 4*d.* per lb for English crystals on the spot. Concentrated lemon-juice is also lower, with offers at 15½*d.* per pipe, c. and f. Citrate of lime is 14*l.* 10*s.* c. and f. About 90 pipes of lemon juice and 152 packages of citrate of lime have arrived in London this week.

ACID, TARTARIC.—The market remains very firm, and a fair business is going on at 1*s.* 0½*d.* to 1*s.* 0¼*d.* per lb. for foreign, while English is firm at 1*s.* 1*d.* per lb.

ALCOHOL.—The Japanese Government have decided to increase the duty on alcohol five times next July; in consequence there is heavy buying for Japan, and the market is firm. The export-business is hindered by the want of ship-room and difficulty in getting containers.

ANISEED.—Finest Spanish has been sold at 33*s.* per cwt., to arrive.

ARROWROOT.—Higher prices still rule, to day's values being St. Vincent 4½*d.* to 6*d.*, and Natal 7*d.* per lb. The stocks in London amount to 2,612 packages, or about six weeks' supply.

BORAX.—Steady at 16*s.* 6*d.* per cwt. for British refined crystals, and 17*s.* for powder. The article is now more freely offered, and forward delivery business is being done.

CAMPHOR.—Crude quiet, and up to Wednesday no business had been done in importers' hands, but prices remain firm at 135*s.* per cwt. c.i.f. for Japanese, but 132*s.* 6*d.* is wanted in second hands. Chinese is unchanged, with sellers for arrival at 127*s.* 6*d.* to 130*s.* Shipping-houses have cables this week quoting 144*s.* for Japanese, and 142*s.* 6*d.* per cwt. c.i.f. for Chinese.

CARDAMOMS.—A sale was announced for to-day but did not come off. Business privately has been confined mainly to good seeds at 2*s.* 9*d.* per lb, and a few lots of ordinary pods at last sale-rates. Fine Ceylon Mysore are still in request, but none is to be had even at the high rates offered.

CINCHONA.—At the second London auctions of the year held on Tuesday nine brokers offered supplies amounting to 2,608 packages (1,911 in January), made up as follows:—

	Packages offered.	Packages.
East Indian cinchona...	1,296 of which	828 were sold.
Ceylon cinchona ...	442 "	334 "
Java cinchona...	420 "	420 "
African cinchona ...	235 "	235 "
Cuprea cinchona ...	140 "	54 "
Bolivian-Calisaya cinchona	42 "	42 "
Cartagena cinchona ...	26 "	26 "
	2,601	1,939

There was a good competition, and the prices obtained were about 10 per cent. above the recent Amsterdam sales. The average unit was 1¼*d.* to 1½*d.* per lb., against 1½*d.* to 1*d.* at the last London sale. Cinchonidine-yielding barks realised in some instances much higher prices than those paid in Amsterdam, and 1½*d.* may be put down as the unit for good *Succirubra*.

The following figures represent the approximate amounts of bark purchased by the principal buyers:—

	Lbs.
Mannheim and Amsterdam factories ...	221,986
Messrs. Howards & Sons ...	69,143
Brunswick factory ...	68,980
American and Italian works ...	31,864
Frankfort and Stuttgart factories...	13,050
Imperial Quinine factory ...	3,172
Druggists, &c. ...	8,830
Total quantity sold ...	416,985
Bought in or withdrawn ...	160,297
Total quantity offered ...	577,282

The following prices were paid:—

SOUTH AMERICAN.—Bolivian cultivated calisaya, fine quill, 7½*d.* per lb. Cartagena, bold flat, 4½*d.*; damages, 4*d.* to 4¾*d.* Cuprea

(imported August, 1884), 1½d. to 1¾d. per lb.; ditto (imported August, 1884), 2d. For 6 bales of soft Colombian 2½d. per lb. was bid and refused, the parcel being bought in at 3½d.

JAVA.—Good rich natural Ledgeriana stem chips, 8½d. to 8¾d.; fair to good, 6¾d. to 7½d.; fair, 4½d. to 6¼d.; branch at 3½d. to 3¾d., root at 5½d. to 7½d. per lb.

AFRICAN, fair bold chips, 6½d. to 7½d.; broken quill and chips, 5½d. to 6½d. per lb.

CEYLON.—Officialis, good renewed quilly chips and shavings, 4½d. to 5½d. per lb. Succirubra stem chips, 3d.; renewed ditto, 3½d. to 4½d.; good root, 4d.; Ledgeriana original stem chips, 6½d.; and hybrid renewed chips at ¾d. per lb.

EAST INDIAN.—Ledgeriana, fair to good chips, 4½d. to 5d.; ditto renewed, 5½d.; good broken quill and chips, 3½d. to 3¾d.; stem and chips, 5d. to 6½d.; and root, 5½d. Crown chips, 5½d.; renewed ditto, 3½d. to 6½d.; stem and chips, 1½d. to 4½d. per lb.

The highest price ever paid for bark in the London market, according to Messrs. Woodhouse, was in 1877, when some renewed officialis bark from the Nilgiris plantations was sold at 15s. 8d. per lb.; supposing this parcel to have contained 6 per cent. of crystallised sulphate of quinine the value of the unit would have been at that time over 2s. 6d. per lb. As late, however, as the year 1880 considerable quantities of bark were sold at about 2s. per unit per lb. From that time the market has been steadily declining until the lowest point was reached in January, 1897, when the public sales in Holland sold at an average unit of 2.12c. per ½-kilo (equivalent to under ½d. per lb.). In 1877 Howard's quinine (in bottles) was sold at 15s. per oz.; on December 31, 1878, their quotation was 12s. 6d. per oz.; on December 31, 1886, 2s. 6d. per oz.; falling by degrees in sympathy with bark till the lowest point was touched in 1897, when business was done at 10d. per oz.; at this time sales of German quinine (best marks) were made at 7½d. to 8d. per oz.—the lowest price on record.

The arrivals of Java bark in Amsterdam last week amounted to 1,148 packages; and the total shipments from Java during February were 539,000 Amsterdam lbs., making a shortage for the two months of 700,000 lbs. compared with last year. The following are the totals in Amst. lbs. for the last four years (January and February):—

1899	1898	1897	1896	1895
1,048,800	1,656,000	876,000	1,516,000	1,413,000

Since the auction there has been rather eager buying by manufacturers (especially B. & S.), who have paid from 10 to 20 per cent. above Tuesday's prices for bark on the spot. In all cases immediate delivery has been stipulated. The Amsterdam sales to be held on March 23 will be small; the offers being 4,293 packages of Ledgeriana and other manufacturing barks, and 2,553 of druggists' barks. These 6,846 packages are part of the total stock of 9,231 packages held in Amsterdam on March 1 (2,738 Government bark, and 6,498 private). The deliveries during February amounted to 4,700, and the imports 3,000 packages. In regard to the stock in London (19,257 bales) only 6,763 bales are manufacturing bark, and more than 8,000 of the balance are fit for manure.

CASCARA SAGRADA.—There has been a fair amount of inquiry this week, although little business has been done, as buyers have not yet made up their minds to pay the higher prices asked. Private advices from New York report a sale of 10 tons at 28s. per cwt. f.o.b. San Francisco, which is a better price.

CINNAMON.—The quarterly sales were held last Monday and proved very disappointing to the holders. The catalogues were small, and consisted largely of parcels bought in at the previous sales; but the demand was so slow that, to effect business, prices were accepted 1d. per lb. below those which the auctioneers had declined on the last occasion. Only about half the quantity offered was disposed of, at a reduction of ½d. to 1d. per lb. on common and medium, and at steady rates for fine. Cinnamon-chips partly sold at 3½d. to 3¾d. per lb.

COCA-LEAVES.—Bold Huanoco-leaves have sold this week at 1s. 3d. per lb.

CREAM OF TARTAR.—Dearer, owing to scarcity of offers from Bordeaux and the expected consumptive demand. Ninety-nine per cent. to 100 per cent. powder is now quoted at 83s. to 84s.; 98-per-cent., 81s.; and 95 per-cent., 79s. to 80s.; ordinary white crystals are 74s. to 75s.; and powder, 76s. to 77s. per cwt.

CUTTLEFISH-BONE.—Recent mail-advices from Trieste report that the stock in first-hands is exhausted, and that second hands are asking higher prices.

DRAGON'S-BLOOD.—Seven cases of bright to ordinary and dull lumps have arrived this week.

GALLS.—Spot parcels of Persian continue to be firmly held; a small quantity of blue has changed hands at 62s. 6d. per cwt. for finest; and a few bags of blue Smyrna at 57s. 6d. per cwt. Japanese have been sold at 50s. 9d. per cwt., c.i.f.

GUM TRAGACANTH.—Quiet, with a small business in fourths and lower grades at previous prices.

HENBANE.—English hiennial tops have sold at 13s. 6d. per lb. Growers have no stock.

IPECACUANHA.—The market this week has been startled with an arrival of 72 bales Brazilian root from Monte Video, and though, no doubt, the brokers were aware of this shipment, they kept it dark. The arrival has depressed the market slightly, and 10 bales were sold at 11s. 6d. to 12s., but it is not anticipated that there will be any pronounced decline, as the statistical position does not warrant it, and it is believed that recent purchases have gone into consumption. Cartagena is quiet, with offers at 8s. spot, and 7s. 6d. per lb. c.i.f. (= 8s. 1d. spot), and business has been done at the latter figure.

KINO.—Arrivals of late have been more free, and East Indian gum is in plentiful supply. A parcel of 10 cases has come to hand this week, but it is of doubtful quality.

MENTHOL.—Quiet at the easier tendency noted last week. Up to Wednesday no business had transpired in first hands, and offers of 7s. 3d. per lb., c.i.f., would be cabled out, but it is uncertain whether they would be accepted.

OIL, CLOVES.—The price of English distilled oil has been reduced from 2s. 11d. to 2s. 9d. per lb.

OIL, COD-LIVER.—Unchanged at 65s. per barrel, c.i.f., for 1899 oil.

OIL, STAR-ANISE.—Weak at 5s. 7½d. per lb. c.i.f.

OIL, TURPENTINE.—American dearer, at 32s. 6d. per cwt spot.

OPIUM.—Quiet, with a lower tendency. A small business has been done in Turkey "druggists" and manufacturing descriptions, at 9s. to 9s. 6d. per lb. on the spot. Soft-shipping holders are slightly easier, but without business. Sales of good Persian have been made at 10s. 6d. to 11s. per lb.

CONSTANTINOPLE, February 24.—The sales for the week amount to 6 cases only at the parity of 8s. 1d. per lb., f.o.b., for druggists' grades. The stock in Constantinople on the above date consisted of barely 140 cases druggists' quality, and 200 cases soft-shipping grades. Should prices recede again there would be heavy buying both here and in Smyrna.

ORANGE PEEL.—Sells slowly at from 6d. to 7d. per lb. for Maltase strip according to quality.

POTASHES.—Firmer. Montreal, 24s. 6d.; pearl, 33s. per cwt., c.i.f.

QUININE has recovered from the inactivity of last week, and on Monday the market opened with a good speculative demand, about 30,000 oz. changing hands on that day at 1s. 1¾d. per oz. on the spot, April at 1s. 1½d., and May at 1s. 2d. After the London bark-sales on Tuesday the market was again animated, and about 70,000 oz. sold at 1s. 1¾d. to 1s. 2½d., and May delivery at 1s. 2½d. to 1s. 2¾d. Yesterday 1s. 3d. spot and 1s. 3½d. to 1s. 3¾d. May-June were paid, the sales and resales amounting to about 200,000 oz., and B. & S. advanced their price by 1d. to 1s. 3d., which is also Brunswick and Zimmer's price. Whiffen is selling to consumers at 1s. 2d. French quinine sulphate (guaranteed B.P.) is selling at 1s. 1d. Business has been done to-day at 1s. 3½d. for May, and 1s. 3½d. is now wanted. Spot has sold at 1s. 3½d. The operations of speculators this week have come to 500,000 oz., or thereabouts. It will be noticed that the imports of quinine during February and the stock on February 28 were exceptionally large—in fact, there is more quinine in the warehouses just now than there has been for four years.

RHUBARB.—A fair amount of business continues to be done in the lower grades of high-dried for the United States, fair flat selling at 10½d. per lb., and common at 6d. to 6½d. Otherwise quiet.

SAFFRON.—Still firm, the equivalent of 43s. per lb. being wanted in Valencia for the best. The importer offers new crop here at 42s. 6d., and in second hands 41s. to 42s. is wanted.

SAESAPARILLA.—Business has been done in Lima-Jamaica root, at 1s. to 1s. 1d. per lb.; 12 packages of Guayaquil and 9 of Jamaica have arrived this week.

SEEDS.—Russian *Anise* sells slowly at 19s. per cwt. for good, and at 17s. for common. *Caraways*, firmer at 22s. 6d. per cwt. *Cumin*, steady at 25s. per cwt. for Morocco, and at 30s. for good Malta. *Fenugreek* has been sold at 7s. 9d. per cwt. for Morocco. Good bold *Linseed* brings 47s. 6d. per qr. *Canary*, lower for common, but steady for fine qualities; Turkish is selling at 27s., and Tangier at 30s. to 32s. per qr.

SENNA.—Privately a small business has been done in second hands in Tinnevely leaf, of medium quality, on the basis of prices given last week. The 120 bales of Tinnevely offered in auction to day were all sold at about unchanged to full-up prices, the following rates being paid:—Medium to fairgreen leaf 2½d. to 2½d.; otto part brown and yellowish, 1½d. to 2d.; and small to medium brown and false-packed, 1d. to 1½d. per lb. The ss. *Shannon*, due here on March 5, has brought nothing.

SODA NITRATE.—Dearer by 6d. Refined is now 8s. per cwt. spot.

SPICES have continued a very quiet market, the auctions on Wednesday going off flatly. *Cochin Ginger* was lower, and only a few lots sold, cuttings at 17s. per cwt., common wormy washed rough at 19s. 6d., ordinary at 23s., good small cut at 35s., and bold cut at 80s. Jamaica sold at 58s. to 63s. 6d. per cwt. for common, and at 72s. 6d. to 90s. 6d. for bold. *Zanzibar Cloves* are steady at last week's rates after some fluctuations. *Pimento* firm, common to good sold at 4½d. to 4¾d. per lb. *Chillies*, quiet, the parcels offered were bought in. *Penang Nutmegs* and *Mace* met with no demand. *Pepper*, steady, but little doing. Singapore white is quoted 8½d. per lb.; Penang white 7½d.; and Singapore black, 5½d. on the spot.

SULPHUR is firm at 5l. 7s. for foreign flowers, and 5l. 10s. f.o.b. for roll in casks.

VANILLA.—At auction to-day 1,262 tins were offered, and practically all sold at about unchanged rates for the finer qualities; medium grades being 1s. to 1s. 6d. dearer. Home buyers again purchased most of the supplies.

The bulk consisted of Seychelles, fair to good black beans, which brought, according to quality, 27s. 6d. per lb. for 8½ to 9 inch; 8½ inch, 26s. 6d.; 8 to 8½ inch, 26s.; 8 inch, 25s. 6d.; 7½ to 8 inch, 24s. to 25s.; 7½ inch, 22s. 6d. to 24s. 6d.; 7 to 8 inch, 23s. to 23s. 6d.; 7 inch, 22s. 6d. to 23s. 6d.; 6½ to 7 inch, 19s. to 23s.; 6½ inch, 20s. 6d. to 22s.; 6 to 7 inch, 21s. 6d. to 22s. 6d.; (split), 18s.; 6 to 6½ inch, 19s. to 22s. 6d.; 6 inch, 20s. 6d. to 22s.; 5½ to 6 inch, 18s. to 22s. 6d.; 5½ inch, 20s. to 21s.; 4½ to 5 inch, 19s.; 4½ inch, 18s. to 20s.; 3½ to 4½ inch, 15s. to 18s.; foxy, 12s. to 18s. per lb.

Mauritius.—7½ to 8 inch, 21s. to 24s. 6d.; 7 to 7½ inch, 21s. to 23s. 6d.; 6 to 6½ inch, 19s. to 22s. 6d.; 6 inch, 22s.; 5½ to 6 inch, 21s. 6d.

Tahiti.—Eleven tins of bold and full flavoured beans offered, and 1 sold publicly at 10s. 6d. per lb.; the remainder of the parcel being bought in at 11s. 6d., but no doubt sold privately afterwards.

WAX, JAPAN.—Steady but quiet, with no sellers below 32s. per cwt. on the spot for good pale squares.

FIRE.—A fire, arising from some unknown cause, broke out on March 1 at the branch establishment, in St. James's Street, Brighton, of the Sussex Co-operative Drug Company. The outbreak was soon subdued, but not before considerable damage had been done.

To ESTIMATE VANILLIN exhaust the vanilla with ether, shake the extract with an aqueous solution of sodium bisulphite, and allow the layers to separate. Draw off the aqueous one and add sulphuric acid to isolate the vanillin, which may then be dissolved out with ether, and weighed after careful evaporation of the ether.

London Drug Statistics.

The following statistics are compiled from information supplied by public warehouses. They relate to the receipts and deliveries of some of the leading drugs from and into the London public warehouses from January 1 to February 28, 1899, and to the stocks on February 28. Their accuracy cannot be guaranteed.

	February		Stocks		Imprtl.	Delivd. 1899
	Landed	Delivd.	1899	1898		
Aloes cs &c.	—	163	2,530	2,683	36	269
..... gours	548	214	2,227	2,418	744	237
Aniseed, star .. cs	25	5	25	89	25	5
Balsam csks &c.	49	139	318	319	172	229
Calumba-root .. bgs	151	43	631	26	174	79
Camphor..... pkgs	527	1,023	4,988	11,204	775	1,701
Cariamoms .. cs &c	374	316	1,612	915	827	475
Cinchona..... pkgs	1,822	1,642	20,061	19,293	2,540	2,410
Cubeba bgs	47	57	1,800	1,252	47	90
Dragons' blood ..cs	12	12	37	46	29	39
Galls..... pkgs	—	—	—	—	—	—
Gums—						
Acacia "	301	1,048	10,956	12,523	1,086	3,057
Ammoniacum .. "	—	1	102	36	—	6
Animi & copal .. "	3,351	2,956	16,095	21,647	8,118	6,242
Asafetida .. "	89	137	375	745	271	216
Benzoin "	78	393	1,634	2,612	164	674
Damar "	600	407	3,397	3,537	1,011	747
Galbanum .. "	—	6	22	—	—	8
Gamboge "	—	34	332	298	—	61
Guaiaac "	—	1	32	85	1	27
Kauri tons	225	199	685	543	628	556
Kino pkgs	7	2	68	21	8	1
Mastic "	—	—	39	24	10	1
Myrrh "	2	58	317	504	37	98
Olibanum .. "	880	666	3,675	2,531	1,515	1,155
Sandarac "	77	150	659	863	177	269
Tragacanth .. "	91	964	876	3,578	795	1,402
Ipecacuanha, Rio bis	6	34	45	172	16	129
..... other kinds pkgs	39	31	33	23	63	73
Jalap bls	10	8	300	332	10	13
Nux vomica .. pkgs	78	57	135	123	78	79
Oils—						
*Anise cs	40	24	287	133	60	3
*Oassia "	—	—	73	121	—	3
Oastor pkgs	197	134	722	675	331	317
Cocoa-nut .. tons	73	103	243	178	233	191
Olive csks, &c.	230	216	719	711	521	350
Palm tons	—	2	5	14	—	7
†Quinine sulph. lbs	7,536	4,210	121,351	105,766	15,402	6,300
Rhubarb chts	151	195	1,496	814	155	286
Senna bls &c.	169	373	1,142	992	474	550
Shellac, all kinds cs	2,625	3,88	47,042	52,289	6,648	8,634
Turmeric tons	—	30	204	276	16	63
Wax, bees' pkgs	202	579	1,293	1,813	40	816
..... Japan..... "	216	53	143	353	372	212

* Stocks of aniseed and cassia oils lying at Smith's Wharf and Brewer's Quay are not included in this return.

† Includes the quantity at Red Lion, Bull, and Smith's Wharves; also the Docks.

Japanese Markets.

(From a Special Correspondent.)

YOKOHAMA, January 26.

IN spite of general expectation of trade revival, the year has opened with rather poor conditions. This is chiefly owing to want of money in the interior, caused by farmers' unwillingness to dispose of their rice, the chief food of the Japanese, on account of great decline in price. Last year's rice-harvest was nearly double that of 1897, when rice to the amount of nearly 40,000,000 yen was imported. Then business was bad on account of the poor rice-harvest, now people complain of worse trade on account of over production, which has caused reduction in prices by nearly 50 per cent. So far as the drug and chemical trade is concerned, importers generally quoted higher prices at the end of last year in anticipation of increase of import duty which came into force on January 1 this year; but there being fairly large stocks held over, prices have not advanced in proportion with tariff. As soon as those stocks diminish prices will naturally go up. Before dealing with current prices of the leading staples, several of the more important Japanese products deserve special mention, and a few notes upon them are therefore given here:—

[The weight equivalents used in this report are:—1 catty = 1½ lb. 1 picul = 133½ lb. The exchange rates in Yokohama at the date

of writing were:—1 yen, London on demand, 2s. 0½d.; Paris on demand, 260f.; Berlin on demand, 210m. 1 yen = 100 sen.]

The Position of Iodine in Japan is mysterious. An American firm in Yokohama are acting as the agents of the Iodine Convention, and they, with a few Japanese houses, are always trying to destroy the iodine-industry in this country. At the end of December their selling-price for potassium iodide was 4.25 yen per lb., and for iodoform 6 yen, but they suddenly reduced the price of the former to 3.15 yen, and of latter to 5 yen per lb. nearly. It should, however, be borne in mind that they do not sell freely at these figures, for they fear re-exportation of the products to European markets, which is very probable. For instance, they sell 40 lbs. of potassium iodide at the low rate to those who buy other articles, such as quinine, potass. bromide, bismuth, &c., to the amount of 1,000 yen. Thus the buyer gets an extra profit of 14 yen out of potass. iodide when he buys from those Japanese traders who are under the direction of the Convention's agent, because the real market-price of the article is 3.50 yen per lb. at present. This is a great obstacle to anti-foreign iodine-merchants, to some extent; still, they are selling their product at a proportionally low rate, and never abandon the production or sale of their iodine. The policy of the Convention's agents is to get the native manufacturers and dealers to abandon the business by impressing upon them that the iodine-industry is a very dangerous one. At one time these native manufacturers and dealers were frightened by the sudden rises and falls in prices, but they are now wise enough to clearly understand the tactics of the Convention's agents (which are always the same), and they never lose money by the industry. When the agents advance the price they keep very quiet and sell their products at lower rates, and when prices decline they begin their buying of raw materials. In short, artificial restrictions to the natural growth of the industry have so far been vain. The iodine material used here is seaweed, which can be got round the whole coast, especially in the provinces of Shima and Hokkaido. The annual production of crude iodine in Japan is estimated at 70,000 or 80,000 lbs., and is rapidly increasing, so that Japan is now not only able to supply her home demand, but must find out some markets abroad. Japanese merchants are already exporting Japanese-made iodine preparations to some markets in the Orient, and also to America and London, though on a small scale; but a rush of Japanese iodine to the London market is not a matter of the distant future, and the scheme of the Convention's agents to destroy the industry may end in failure.

Menthol is very dull now. This is owing to the decrease of demand abroad and the heavy stock here. Crystals are quoted at 4 yen per catty, and oil 2 yen per catty. Exports of oil and crystals during the past four years were as follows:—

	Oils	Crystals
1895 ...	61,700 cattles	29,600 cattles
1896 ...	31,000 "	26,100 "
1897 ...	45,400 "	58,800 "
1898 ...	18,398 "	13,000 "

Ginger.—Decreased acreage of cultivation and poor production have caused great decrease of stocks. The last crop is estimated at about 7,500 piculs. In anticipation of a poor harvest in West India holders ask high prices. Buyers want to purchase at 9 yen per picul for fair quality, but sellers want 9.20 yen to 9.30 yen. Holders do not now want to sell, and a great advance is expected in future.

CURRENT QUOTATIONS.

ACID, ACETIC, GLACIAL.—Within the past few years the demand for this article has greatly increased, and an inferior quality, which does not crystallise even in severe winter weather, has begun to come into the market. The price for glacial is 25 sen per lb.

ACID, CARBOLIC.—This not being consuming season the acid is very slow of sale. There are stocks in Yokohama of about 800 cwt. at present; crystal, 34 sen per lb.

ALCOHOL.—The importation of this article has greatly increased in anticipation of enforcement of 250 per cent. import duty, now being discussed in Diet.

ANTIPYRIN.—On account of heavy and continual fall in price, demand has increased ten times; 22 sen per oz. is the price for 5-lb. tins.

BORAX.—Importers advanced their price by 5 per cent. owing to cable advices from Europe. Boracic acid also advanced to 14.80 yen per cwt.

ERGOT.—Scarce, price quoted 85 sen nominally. Extract changed hands at 73.50 yen per lb.

MORPHIA.—Declined by 1 yen, and now quoted at 43 yen per lb.

QUININE.—Notwithstanding high price in London, price in this quarter is low. Business is doing at 63 sen per oz. for muriate in 100-oz. tins, and 44 sen for sulphate. Stock is estimated at about 100,000 oz.

POTASSIUM IODIDE.—Foreign make declined to 3.15 yen per lb.; Japanese selling at 3.45 yen to 3.50 yen.

SUGAR OF MILK.—A certain merchant intends to monopolise all stock in Japan, consequently price has advanced to 30 yen per cwt.

SUGAR OF LEAD.—Holders want more money. Business has been done at 13.75 yen per cwt.

SODA, BICARBONATE.—Brunner's, 4.15 yen per cwt.; American, 4 yen per cwt. Soda, ash (alkali).—Very scarce. Holders now want 4.40 yen per picul, and further advance is expected. Soda, caustic. HB and Red Bull brands sold at 3.50 yen per picul.

IMPORTS.

The following statistics relate to the importation of drugs and chemicals into Yokohama during December, 1898:—

Acid, acetic, glac.	(20 kilos) 460 drums.	Carbonate of magnesia ...	600 cwt.
" boracic ...	200 cwt.	Cocaine muriate ...	800 oz.
" carbohc ...	100 "	Chloroform ...	2,400 lbs.
" pyrogallc ...	1,000 oz.	Creosote carbonate ...	400 "
" tartaric ...	6 cwt.	Extract of ergot ...	400 "
" tannic ...	10 "	Glycerin ...	250 cwt.
Acetone ...	4 "	Iodide of potassium ...	8,500 lbs.
Aloes, Cape ...	10 "	Iodoform ...	1,000 "
Alcohol ...	3,423,098 lbs.	Ichthylol (ammon.) ...	500 "
Arsenic, powder ...	70 cwt.	Morphia ...	100 "
Antipyrin ...	6,600 oz.	Quinine, muriate ...	4,000 oz.
Amorphous phosphorus ...	2,000 lbs.	" sulph. ...	5,000 "
Bismuth subnit. ...	2,000 lbs.	Resin ...	1,500 piculs.
Borax, cryst. ...	200 piculs.	Soda, bromide ...	672 lbs.
Calc. carbonate	(122 lbs.) 210 kegs.	" caustic (6 cwt.) ...	350 drums.
Cream of tartar ...	20 cwt.	" bicarbonate ...	1,000 cwt.
Carbonate of ammonia ...	100 "	" ash ...	1,200 "
		Potassium bromide ...	100 "
		" chlorate ...	200 "
		Santonin ...	400 kilos.

Coming Events.

Monday, March 6.

Dewsbury and District Chemists' Association, Town Hall Dewsbury, at 8.30 p.m. General meeting.
Society of Chemical Industry (London Section), Burlington House, Piccadilly, W., at 8 p.m. "Guano Deposits."

Wednesday, March 8.

Sheffield Pharmaceutical and Chemical Society. Mr. G. Ellinor on "Patent Medicine, Stamp-licence, and Anomaly."
Edinburgh Chemists', Assistants', and Apprentices' Association, 36 York Place, at 9.15. Open meeting. "Notes and Queries," by Mr. W. B. Cowie.
Manchester Pharmaceutical Association. "The Alps of the Caucasus," by Mr. Hermann Woolley.
Newcastle Chemists' Association, Hotel Metropole, West Clayton Street, at 8 p.m. "Laboratory Notes," by Mr. F. R. Duddridge, and discussion of Federation circular.
Midland Chemists' Assistants' Association, Birmingham. "An Hour with the Polarimeter," by Mr. F. H. Alcock.

Thursday, March 9.

Chemists' Assistants' Association, 73 Newman Street, W., at 9 p.m. Paper by Dr. A. P. Luff, on "The Chemistry of Gout," with Demonstration of a Method of Determining Uric Acid.
Glasgow and West of Scotland Pharmaceutical Association, 94 West Regent Street, at 9 p.m. Short papers.
Midland Pharmaceutical Association, Mason University College, Birmingham. Smoking-concert.
North-East Lancashire Chemists' Association meet at 2 p.m., at the White Bull Hotel, to visit the Blackburn Sewage, Gas and Electricity Works.

Friday, March 10.

Aberdeen Junior Chemists' Association, North Silver Street Hall, at 9.30. Debate on "Which is the Best Sport?"
Royal Institution of Great Britain, Albemarle Street, Piccadilly, W., at 9 p.m. Professor H. L. Callendar on "Measuring Extreme Temperatures."
Cambridge Pharmaceutical Association, at 9.15. Dr. Reynolds Green will lecture on "The Nervous System in the Vegetable World."

WILD VANILLA IN ZANZIBAR.—The *Shamba* reports that vanilla-plants grow wild out there in large quantities, but the plants are weak and straggling. Fruit was forming on many of the plants. Some insect must have been at work fertilising the flowers, and if the wild why not the cultivated? asks our contemporary.

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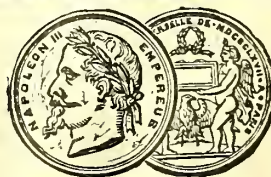
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It is very pleasant to the taste, and its great nutritive properties may be taken advantage of by Children and Invalids, Growing Youth, Convalescents, Brain Workers, Athletes, Professional and Business Men and Women.

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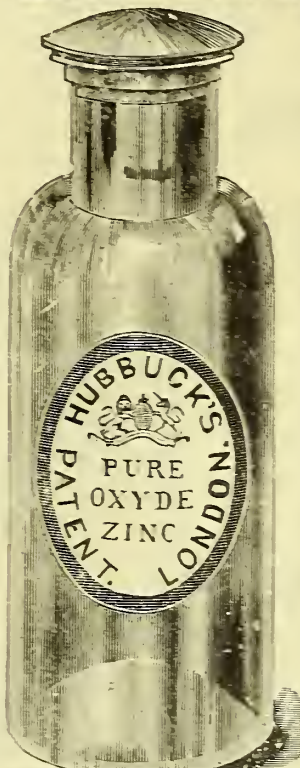
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Our "A" quality is almost identical with the British Pharmacopœia formula, but owing to the desire of the public for a sweeter preparation we make four kinds, A. B. C. & D.; each having the proportion of Sugar, varied according to the price.

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Per lb. 10d.; 1 cwt. 90.-; in 4-28 lb. Tins. Tins and Cases free.					
In round bottles, corked—	1 lb.	1 lb.	1 lb.		
Per dozen	46	78	126		
Per gross	50-	80-	144-		

"B" QUALITY. Pink Label.

Per lb. 9d.; 1 cwt. 74.-; in 4-28 lb. Tins. Tins and Cases free.					
In bottles as above—	1 lb.	1 lb.	1 lb.		
Per dozen	42	7-	11-		
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"C" QUALITY. Yellow Label.

Per lb. 8d.; 1 cwt. 68.-; in 4-28 lb. Tins. Tins and Cases free.					
In bottles as above—	1 lb.	1 lb.	1 lb.		
Per dozen	4-	63	10-		
Per gross	44-	74-	116-		

"D" QUALITY. White Label.

Per lb. 7d.; 1 cwt. 60.-; in 4-28 lb. Tins. Tins and Cases free.					
In bottles as above—	1 lb.	1 lb.	1 lb.		
Per dozen	36	53	9-		
Per gross	39-	62-	102-		
In Enamelled Tins—		1 lb.	1 lb.		
Per dozen		53	86		
Per gross		58-	99-		

Raspberry flavour, tinted	..	..	..	per lb. 1-	per cwt. 70/-
Lime Fruit flavour	..	..	..	" 1/-	" 70/-
Lemon flavour	..	..	..	" 1/-	" 70/-
6 oz. White Flats, patent stoppered, or blue lettered,	A	B	C	D	
patent stoppered, or wood top corks	48-	38/-	36/-	34/-	
8 oz. White Flats, patent stoppered, or blue lettered,					
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We now offer either our "D. C. L." Malt Extract or "D. C. L." Malt Extract and Cod Liver Oil in 8-oz., 16-oz., and 52-oz. bottles (fluid capacity) at 1s., 1s. 9d., and 4s. 6d. each respectively. Prices to chemists 9s. 6d., 16s. 6d., and 43s. 6d. per dozen, net. Carriage paid on 3 dozen lots. Supplies can be had from Chemists' usual Drug or Sundry House.

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Tins.

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In 1d., 2d., 3d., and 6d.
Tins. Also in 1, 2, 3, and
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CUE-TIP FIXERS

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FOR STONE, PORCELAIN,
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SUBSTANCES.

Requires no preparation, easy and
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1/6 Essence, ½ oz.	15/- doz.	} less 10 %	1/1½ Ointment	11/- doz.	} less 10 %
2/6 do.	24/- "		2/9 Ointment... ..	27/- "	
2 oz. do.	3/- each	} net	8 oz. do.	5/6 each, less 5 %	
4 oz. do.	6/- "		1/6 Soap	15/- doz.	
6 oz. do.	9/- "		1/- do.	9/- "	
1/- Extract	9/- doz.		1/6 Dry Inhalers	14/- "	} less 10 %
1/1 Jujubes (Coated)	11/6 "		10/6 Steam Inhalers... ..	120/- "	
2/3 do. do.	22/- "	} less 10 %	2/- Wool Packet	18/- "	
1/1 do. (Plain)	11/6 "		Wound Pads	1/6 "	
2/3 do. do.	22/- "		1/1½ Plasters (in Tins)	10/- "	
1/9 Liniment... ..	20/- "		1/1½ Zalones	12/6 "	

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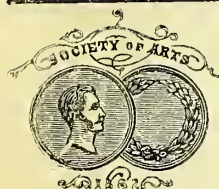
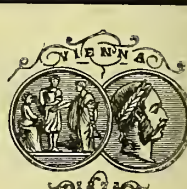
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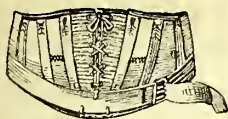
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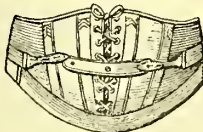
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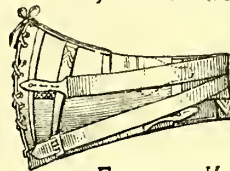


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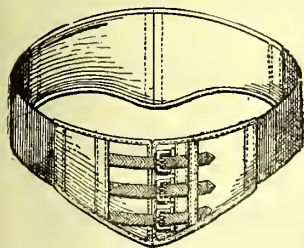


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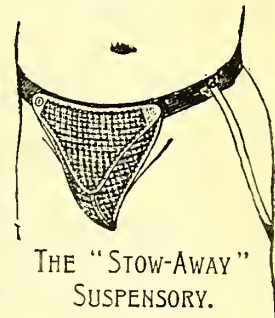


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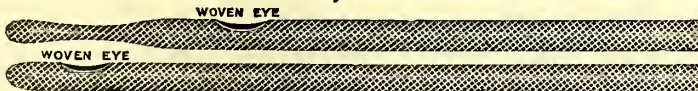
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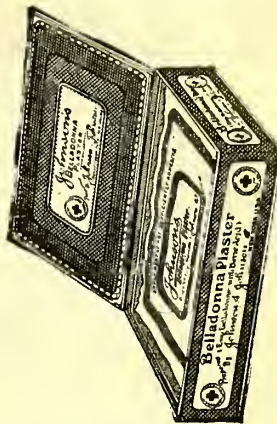
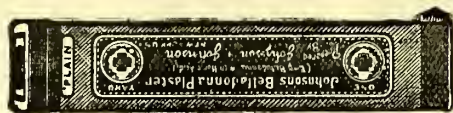
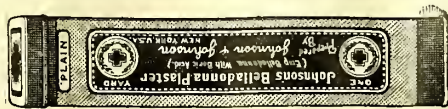
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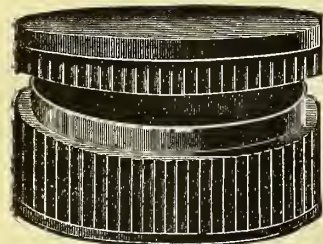
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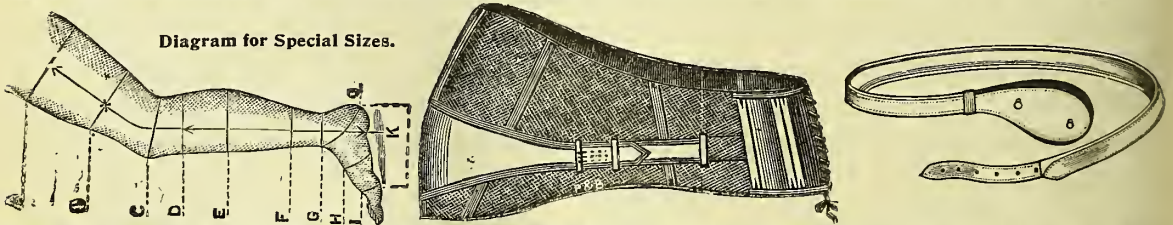
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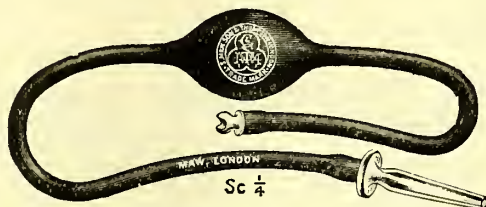
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					Percentage	In Paper Parcels	In Boxes	In Sealed Tins
						s. d.	s. d.	s. d.
GAUZES (36 in. wide)—Boric	per dozen yards		25	1 9	2 0	2 3
Carbolized, unbleached	...	...	" "		5	1 8	1 11	2 2
Iodoform	...	...	" "		10	4 0	4 3	4 6
Iodoform	...	...	" "		5	4 0	4 3	4 6
Lister's Cyanide of Mercury and Zinc	...	...	" "		3	3 2	3 5	3 8
Sal Alembroth	...	...	" "		1	1 9	2 0	2 3
Salicylic	...	...	" "		4	2 4	2 7	2 10
Sublimate, Unbleached	...	...	" "		1/4	1 6	1 9	2 0
LINTS —Boric...	...	...	per lb.		45	1 6	1 9	2 0
Carbolized	...	...	" "		5	2 0	2 3	2 6
Cyanide of Mercury and Zinc	...	...	" "		3	3 4	3 7	3 10
Iodoform	...	...	" "		10	5 0	5 3	5 6
Sal Alembroth	...	...	" "		2	2 1	2 4	2 7
Salicylic	...	...	" "		4	2 4	2 7	2 10
Sublimate	...	...	" "		1/4	2 0	2 3	2 6
WOOLS —Boric	...	...	" "		45	1 4	1 7	1 10
Carbolized	...	...	" "		5	1 6	1 9	2 0
Cyanide of Mercury and Zinc	...	...	" "		3	2 8	2 11	3 2
Iodoform	...	...	" "		10	4 6	4 9	5 0
Sal Alembroth	...	...	" "		2	1 6	1 9	2 0
Salicylic	...	...	" "		4	1 9	2 0	2 3
Sublimate	...	...	" "		1/4	1 4	1 7	1 10

S. MAW, SON & THOMPSON, 7 to 12 Aldersgate Street, LONDON.

TOOGOOD'S WHITE GLASS POISON SHOP ROUNDS

(Conforming to the Poison Regulations).

Extract from Regulations—

b. Poisons to be kept in a bottle or vessel, ***distinguishable by touch*** from the bottle or vessel in which ordinary articles are kept in the same warehouse, shop, or dispensary.



SIZES:—

	8	16	20	32	40	48 oz.
Height to Shoulder	4	5	5½	6¼	7	7¾ in.
Height to top of Stopper	5¾	7¾	7¾	9	10¼	10¾ in.
N.M.	8/-	11/-	12/-	15/-	16/-	18/- doz.
W.M.	9/-	12/-	13/-	16/-	17/-	19/- „

LABELLING IN GOLD, 3/6 doz.

WILLIAM TOOGOOD,

Burlington Buildings, Heddon Street, Regent Street, LONDON, W.

CHEMISTS' PRICE LISTS.

Apply to TIDMAN & SON, LTD., for conditions for advertising in above for 1899—

TIDMAN'S SEA SALT,
TIDMAN'S CREAMOLINE SOAP,
TIDMAN'S SEA SOAP.

TIDMAN & SON, LTD., Bushell St., Great Hermitage St., & Wapping High St., LONDON, E.



POISONS!



The important regulations as to keeping, dispensing, and selling Poisons, having now received the formal approval of the Privy Council, have become obligatory on all Chemists.

For Stock Bottles, our

ACTINIC GREEN RIBBED SHOP ROUNDS, WITH RECESS LABEL,

fulfil the requirements of the Act. We supply in the following sizes:—

5	10	20	30	40	ounce.
19/6	21/-	22/6	25/-	27/-	per dozen.

BOTTLES FOR DISPENSING.

BOTTLES—Poison, ACTINIC GREEN.

No. 27*b*. Hexagon, or Flat, Plain, Figs. 17 and 18.

Size	$\frac{1}{4}$	$\frac{1}{2}$	1	$1\frac{1}{2}$	2	3	4	6	8	ounce.
	5/-	5/6	6/6	7/4	8/3	9/9	11/6	13/3	15/6	per gross.
„ 28 <i>a</i> . „ Stoppered	1/9	1/9	1/11	2/-	2/-	2/6	2/6	3/4	3/4	per dozen.

BOTTLES—Poison, DARK BLUE.

No. 27. Hexagon.

Size	$\frac{1}{4}$	$\frac{1}{2}$	1	$1\frac{1}{2}$	2	3	4	6	8	10	12	16	20	30	ounce.
	4/-	4/6	4/9	5/9	6/6	7/9	9/-	10/6	13/-	16/-	17/6	23/-	27/-	—	per gross.

No. 27*a* Flat.

Size	$\frac{1}{4}$	$\frac{1}{2}$	1	$1\frac{1}{2}$	2	3	4	6	8	10	12	16	20	30	ounce.
	—	4/6	4/9	5/9	6/6	8/-	9/-	10/6	13/-	16/-	17/6	23/-	27/-	—	per gross.

No. 28. Stoppered Hexagon.

Size	$\frac{1}{4}$	$\frac{1}{2}$	1	$1\frac{1}{2}$	2	3	4	6	8	10	12	16	20	30	ounce.
	1/9	1/9	1/11	2/-	2/-	2/6	2/6	3/4	3/4	3/9	4/-	4/3	4/9	6/-	per dozen.

POISON CUPBOARD.

(REGISTERED.)

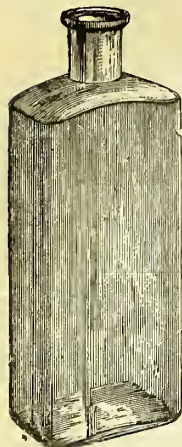
We have designed a Cabinet for Storing Poisons. The construction being that only one bottle can be seen or used at one time. Protection is obtained by a series of panels, which are moved without the slightest trouble, and each row is secured by a door with lock and key. Each panel would be labelled, denoting contents of receptacle, and with the duplicate label on bottle is a further safeguard. In addition to the foregoing the stock of bottles is kept free from dirt and dust, and the compound department kept orderly. We can make to any dimensions and number, on receipt of particulars of size of bottles adopted.

EVANS, SONS & CO.
LIVERPOOL.

EVANS, LESCHER & WEBB,
LONDON.

CANADA AND UNITED STATES:

EVANS AND SONS (LIMITED).

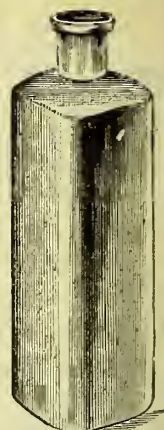


H. GILBERTSON & SONS

Established 1790. (LIMITED).

Dispensing Bottles

A SPECIALITY.



Extract from *C. & D.* Nov. 19th, 1892:—"There has been no hit in the bottle line of recent years which has been so well responded to by the Trade."

MADE IN TWO QUALITIES ONLY—SUPER & ORDINARY.

Samples Sent on Application.

No. 118,583.
Dispensing. Imitated,
but not equalled.

"G" Squares.

DRAWN FROM STOCK.

SIZE.	Per Gross	SUPER.	ORDINARY.
2 oz.		9/3	6/8
3 oz.	"	10/9	8/-
4 oz.	"	10/9	8/-
6 oz.	"	12/-	9/6
8 oz.	"	12/-	9/6
10 oz.	"	18/-	12/-
12 oz.	"	18/-	13/6
16 oz.	"	21/6	18/9
20 oz.	"	27/-	21/6
24 oz.	"	32/6	27/-
32 oz.	"	43/-	30/-
40 oz.	"	49/-	32/-

IN CRATES DIRECT FROM WORKS.

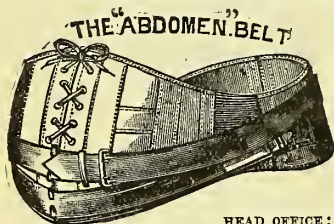
SIZE.	Per Gross	SUPER.	ORDINARY.
2 oz.		9/-	6/6
3 oz.	"	10/3	7/6
4 oz.	"	10/3	7/6
6 oz.	"	11/6	9/-
8 oz.	"	11/6	9/-
10 oz.	"	17/6	11/3
12 oz.	"	17/6	12/6
16 oz.	"	21/-	17/6
20 oz.	"	26/-	20/-
24 oz.	"	32/-	26/-
32 oz.	"	41/-	29/-
40 oz.	"	48/-	31/-

9 & 11 ST. ANDREW STREET, HOLBORN CIRCUS, LONDON.

VINCENT WOOD

(Established over 60 years), Manufacturer on the Premises of
Elastic Stockings, Trusses, Abdominal Belts, Suspenders,
and Surgical Appliances.

The LARGEST and CHEAPEST Maker in the Entire Trade.



"THE ABDOMEN BELT"

VINCENT WOOD for Trusses,
superb quality, from 11/6 per
doz.
VINCENT WOOD for Elastic
Stockings, from 3/- per pair
VINCENT WOOD for Ladies'
Abdominal Belts, from 24/- per
doz.
VINCENT WOOD for Gentle-
men's Riding Belts, from 12/-
per doz.
VINCENT WOOD for Suspensory
Bandages, from 1/9 per doz.
VINCENT WOOD for Surgical
Appliances generally.
*Special Orders executed same
day as received.*

HEAD OFFICE:

4 ALBION PLACE, Blackfriars Bridge, LONDON, S.E.

Steam Mills:—NOTTINGHAM and CARLTON.

Telephone:—HOP 542.

Telegrams:—"ACME LONDON."

DISPENSING BOTTLES.

THE NORTH LONDON GLASS BOTTLE COMPANY

(I. ISAACS & CO., Proprietors)

Begin to inform the Trade that they have made a further reduction
in the price of their Bottles, as follows:—

The NEW SHAPE FLAT BOTTLES, with rounded edges, plain
or graduated—

3 & 4 oz. ... 7/6 per gross. | 10 & 12 oz. ... 12/- per gross.
6 " 8 " ... 8/6 " | 16 " ... 16/- " "

WHITE MOULDED PHIALS, plain or graduated Teaspoons—
1/2 oz. ... 3/6 per gross. | 1 1/2 oz. ... 4/6 per gross.
1 " ... 3/9 " | 2 " ... 5/- " "

PLEASE NOTE.

Six gross and upwards, assorted or otherwise, are carriage paid
to any address in England; smaller quantities not carriage paid.

I. ISAACS & CO., Glass Bottle Manufacturers,
106 MIDLAND ROAD ST. PANCRAS, LONDON.

Established 50 years.

Bankers—London and Westminster Bank.

Unaltered in Size and Dose.

NITROGLYCERIN TABLETS,

Tabellæ Nitrolycerini, B.P., 1885 (MARTINDALE)

Will continue to be supplied unless Trinitrin Tablets, B.P. 1898, be
ordered. The Weight of Chocolate in a dose of the latter is doubled.
This dilution will diminish their value as a remedy of prompt action.

PLEASE SPECIFY MARTINDALE'S,

THE ORIGINAL MANUFACTURER.

TRINITRIN TABLETS, B.P., 1898, also Supplied,
as well as **ERYTHROL NITRATE TABLETS**
and **MANNITOL NITRATE TABLETS.**

MARTINDALE'S CAPSULES OF
AMYL NITRITE,
ETHYL IODIDE, ETHYL BROMIDE,
CHLOROFORM, &c.

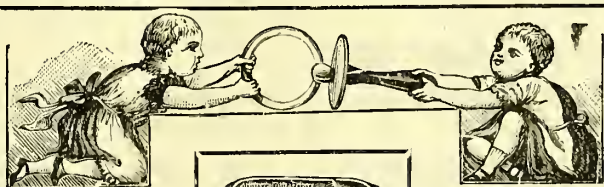
W. MARTINDALE,
10 New Cavendish Street, W.

FOUND AT LAST! AN IDEAL TEATFAST SOOTHER.

THE "NURSE MARGERY." Prov. Pat. 27439.

Teatfast & Shieldfast

Can be applied to ANY Pattern, not necessarily only Ring Soothers.



Simplicity itself.

Without any obstruction in the Teat.

All fitted with Cords, being part of the Patent.



No more Children Choked by Teats and Shields coming apart.

L1	1d. Olive Wood, Pear-shape Polished Teat	7/6 gross.
L1s	1d. " " " Seamless Teat	8/- "
L2	2d. Ring, Seamless Teat	1/2 doz.
L27	2d. Flat Bone, Seamless Teat	1/3 "
L39	2d. Long, with 2nd size Teat	1/4 "
L103	2d. Long, Fancy 2nd size Teat	1/4 "
L23	6d. Rubber Ring, Pad and Teat	3/6 "

L3	3l. Solid Ring, Seamless Teat	1/10 doz.
L17	3d. Rubber Ring, Seamless Teat	2/- "
L37	3d. Rubber Small " " " "	1/6 "
L36	3d. Rubber Ring and Pad	2/- "
L4	4d. Solid Ring	2/8 "
L38	4d. or 6d. Large Rubber Ring	3/- "

PLEASE REMEMBER! THE "TEATFAST" LOCK IS APPLIED TO ANY PATTERN, & HAS NO OBSTRUCTION IN THE TEAT.

Extract from "Chemist and Druggist," Feb. 4th, 1899:—"A TEATFAST SOOTHER.—Messrs. Shirley Brothers, Whitecross Works, Newington Causeway, S.E., send us samples of a new idea which they have patented for securing the Teats on Babies' Soothers. It is a simple idea, the cord which is put round the infant's neck being placed within the teat. This secures the teat in a remarkable way, one person pulling at the cord and another at the teat being unable to pull the latter off. If by some miraculous accident the infant should manage to suck the teat down its throat, the cord is bound to go with it, so that choking would even in that extreme case be prevented by pulling the cord."

TINS Whatever you **TINS** Don't forget **TINS** is THE **TINS** all **TINS**
TINS want in **TINS** SHIRLEY BROS. **TINS** HOUSE for **TINS** kinds. **TINS**
TINS Plain. **TINS** Decorated. **TINS** quoted for in quantity. Please write for quotations.

SHIRLEY BROTHERS, Whitecross Works, Rockingham Street, S.E.

IMPROVED

TABLET PRESSES.

SINGLE AND TRIPLE.

Of ARTHUR COLTON, Detroit, Mich., U.S.A.
 Maker of Special and Improved Pharmaceutical Machinery.

Make from 95 to 285 Tablets per minute—round, square, or octagon, large or small—and are adjustable for all sizes. Not only the best but the cheapest Tablet Presses on the market.

POWER PILL CUTTER

Our Power Pill Cutter, which has a capacity of 125,000 3-gr. pills in 10 hours. The only Power PILL Cutter on the market that will turn out pills accurately and quickly.

Improved Rapid

GELATINE PILL-COATING MACHINE.

Coats 300 Pills at one Dipping. An absolutely New Invention.

SEND FOR CATALOGUE TO

JAMES L. HATRICK & CO., LIM.

Wholesale Surgical Instrument Dealers, &c.,

Sole Agents for Great Britain and Ireland,

32 Turnmill St. (Next Booth's Distillery), London, E.C.

ALL CHEMISTS

Should keep it.

Put up on
1 doz. Cards.

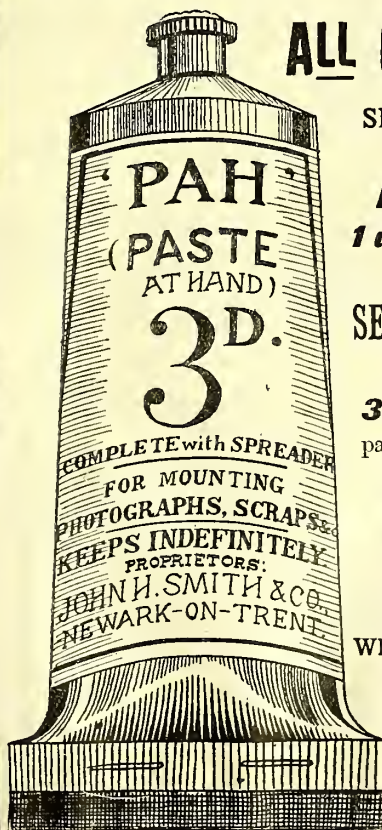
SELLS AT SIGHT

3 doz. carriage
paid on receipt of
P.O. for

6s.

Stocked by all
Wholesale Houses.

Patent applied for.



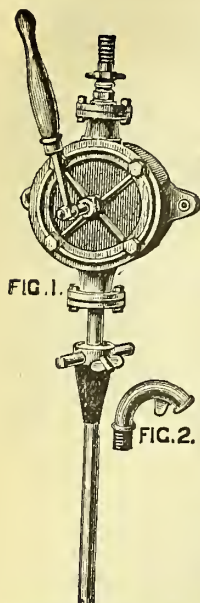


FIG. 1.



FIG. 2.

BUY THE BEST OIL PUMP AND SAVE OIL, TIME, MONEY. THOUSANDS IN USE.

This is a representation of our "WILLCOX" New SEMI-ROTARY PATENT PUMP, with Improved Taper Barrel Attachment. It is easy to work and simple in construction, and is admitted to be the best article in the market for Pumping Paraffin Oil and all kinds of Liquid from barrels or tanks into other receptacles.

We hold a Large Stock, and can give Prompt Delivery.

BEWARE OF IMITATIONS.
Ours is the Original Patent Pump.

Write for full particulars and prices of The "Willcox New Semi-Rotary" Patent Oil Pumps to

W. H. WILLCOX & CO., LTD.
Offices—23 SOUTHWARK STREET,
Warehouses—34 and 36 SOUTHWARK STREET,
LONDON. S.E.

Telephone No. 740 Hop.

Agents for Ireland for our Semi-Rotary Patent Pumps—

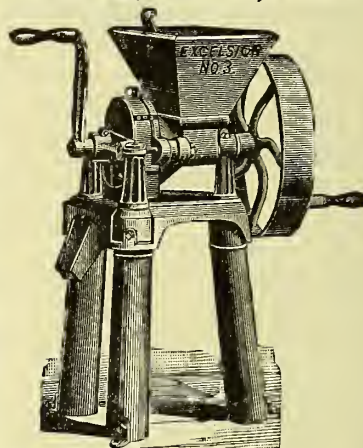
J. JONES & SON, 15 Parliament Street, DUBLIN.

A NEW MILL, THE "EXCELSIOR."

MADE IN THREE SIZES, FOR HAND OR POWER.
Suitable for Grinding

Wet or Dry Corn, Coffee, Cocoa, Spices, Drugs, Root Seeds, Herbs, Barks, Rock Salt, or similar substances.

Simple. Cheap.
Durable and Efficient.



Send for Price List.
All Sizes in Stock.

BENNETT, SONS & SHEARS, LIMITED

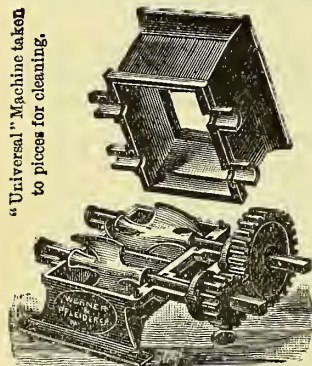
Engineers and Coppersmiths,

167 Kingsland Road, LONDON, N.E.

ESTABLISHED 100 YEARS.

Telegrams—"COPPERSMITHS LONDON." Telephone 59,095 Dalston.

"Universal" Machine taken to pieces for cleaning.



Size 3, Type I., for 1-lb. Mass.

THE "UNIVERSAL" Kneading & Mixing Machine,

Used by all the largest Pill Makers.

SUITABLE ALSO FOR

ointments, powders,
AND MASSES
of any
Consistency.

PILL MASSING MACHINES.

PILL
PIPERS,
CUTTERS,
ROUNDERS, COATERS,
"SPIRAL BRUSH"
POWDER-SIFTERS

(WITH INTERCHANGEABLE SIEVES).

And every Accessory for the Pill Room.

WERNER, PFLEIDERER & PERKINS (LTD.),

Head Offices & Showrooms—117 Queen Victoria St., E.C.

Works—Regent Square, Gray's Inn Road, W.C.

Contractors to the War Offices of all the Great Powers

GARDNER'S PATENT

"RAPID" SIFTERS & MIXERS

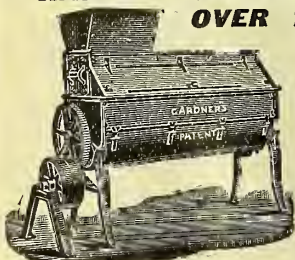
OVER 1,060 working in

Almost Every Trade where
POWDERS are Sifted and
Mixed and Lumps Re-
duced, all being done at
one operation and without
loss by dust.

FOR HAND OR POWER.

From 50/- to £90.

CATALOGUES FREE.



WM. GARDNER & SONS, Engineers, GLOUCESTER.

DR. MARTIN'S PURE RUBBER BANDAGES.

For
Varicose
Veins, Ulcers,
Eczema of the
Leg, Swollen
and Weak
Joints.



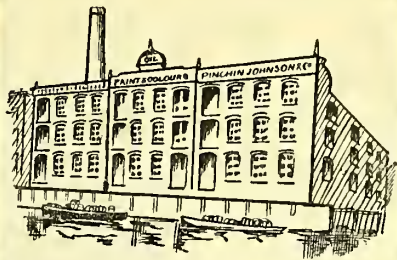
CAUTION.—Please
order Genuine
Martin's Bandages,
each being
stamped with Dr.
Martin's signa-
ture. All others
are Spurious
Imitations.

Complete Price List
Trade Discount, and
Dr. Martin's
Pamphlet post free.

No.		PRICES.		Feet	Inches	Each
3A	Thin, for ankle, elbow, wrist, and forearm	..	..	6	2 1/2	3/6
3.	Thick	..	..	6	2 1/2	4/-
1B.	Thin, for "leg below knee."	..	..	10 1/2	3	5/6
1A.	Thick	..	..	10 1/2	3	7/6
8.	Thin, for "leg and knee"	..	..	14	3	7/6
7.	Thick	..	..	14	3	9/6
9B.	Thin, for "leg and thigh"	..	..	21	3	10/6
9A.	Thick	..	..	21	3	13/6

Sole Agents—**KROHNE & SESEMANN, SURGICAL INSTRUMENT MAKERS**
8 DUKE STREET, MANCHESTER SQUARE, LONDON.

VARNISHES
OILS.
WHITE LEAD
PAINTS.



Works: Pinchin's Wharf, Broad Street,
RATCLIFF, E.

COLOURS.
ENAMELS.
WHITE ZINC.
For all Markets.

Telegrams: "PINCHIN LONDON." **PINCHIN, JOHNSON & CO., 23 Billiter St., LONDON.** Telephone: 2241 AVENUE.

J. & E. DALTON & CO. LTD.,
MANUFACTURERS OF

EMERY CLOTHS
AND EMERY PAPER,
Glass Cloth & Glass Papers,
THE DALTON CELEBRATED KNIFE POLISH,
Naxos Emery, Ground Glass, &c.

ALBION MILLS EMERY WORKS
New Mills, near STOCKPORT.
Agents for Scotland—**SHAND BROS., 6 DIXON ST., GLASGOW.**

PAROZONE BLEACH

Snow
White Linen.
Retailed at
1d. per Measure.



Removes Tea &
Fruit Stains.
Also in
6d. Bottles.

Full Particulars on application—

THE PAROZONE CO., LIM.
22 Chatham Place, Hackney, LONDON, N.E.



GLUE in CAKES & POWDER.

A. BRAUER'S CHEMICAL WORKS, LÜNEBURG
(GERMANY).

Manufacture Glue from Skins and Bones, Liquid and in Cakes (so-called "Cologne" Style).

GLUE IN CAKES, A¹_m (Hide and Bone Glue Mixed).

Also Exclusive Manufacturers of

GLUE IN POWDER Made by a New Process.

Guaranteed free from Acid and Fatty Matter, and made from Skins.

SPECIAL ATTENTION GIVEN TO EXPORT ORDERS.

Correspondence in English.

Agent for England.—**Mr. J. BARLOW, 15 George Street, Cheetham Hill, Manchester.**

Agent for Scotland.—**Mr. MAX PAULSEN, 62 Commercial Street, Dundee.**



PAMINA
EXTRACT.



PANAMA
BOMB.

Will renovate carpets, and bring up all the original brilliancy and delicate colouring. It will remove all stain from delicate dresses and light materials. The utility of this article is unsurpassed, and guaranteed not to injure the most delicate fabric. Requires no labour. A child can use it.

Retails at **4d. per Tin.** Shown Handbills on application.

Cloth Cleaner. The matchless Renovator. Greatest Spot-killer on earth. Will remove stains of almost every description from cloth, linen, and materials of every kind. Highest Testimonials.

Retails at **2d.** Very compact. Samples on application.

Sole Agent:—**HENRY S. BENJAMIN, 3 New Union St., Moorfields, London, E.C.**

CARDS.

FOR TERMS APPLY to the PUBLISHER.

FRED^K. FINK & CO.

10 & 11 MINING LANE, LONDON, E.C.

SPECIALITIES: Glycerine—Gum Arable—
Gum Tragacanth—Pure Beeswax—Honey.

TO DENTISTS.

High-class Dental Mechanism in Gold, Dental Alloy, Tubes, Gum Sections, Vulcanite, Celluloid, or their Combinations, by

A. J. FENTIMAN & CO., Dentists,

2 UPPER EAST LONDON (Near Royal Mint and
SMITHFIELD, Mark Lane Stations), E.

In no way connected with any other address. **MODERATE CHARGES.**
ESTABLISHED 1885. Telegraphic Address—"LULLINGLY LONDON."

THE WORLD'S LARGEST DEALER IN

PURE SPANISH CANARY SEED AND CUTTLEFISH BONE.

J. MACQUEEN, BROWN STREET, GLASGOW,
AND PORT ST. MARY, SPAIN.

BARKER'S SHAVING PAPER

With a reputation of over 50 years, is the only means of preserving uninterrupted a keen edge to razors, absolutely without trouble. A leaf being used for wiping the razor upon after shaving, an exquisitely keen edge is thus, day by day, automatically secured.

Protected Prices. Continuous Sale wherever introduced.

Packets, 6d. & 1s. Boxes, 3s. & 6s. Books, 1s., 1s. 6d., & 2s. 6d.

Sole Manufacturers—F. Barker & Son, Finsbury Park, London, N.



CACHETS "FINOT"

(White or Coloured),

WITH INSCRIPTIONS IN ANY DESIRED
TINT; ALSO PLAIN OR EMBOSSED.

"Beautifully made, and the inscriptions give them a distinction all their own."—C. & D.

These Cachets are especially adapted for Headache, Neuralgia, & other powders.

COOPER & CO., 80 Gloucester Road, SOUTH KENSINGTON.

In Nine Sizes. Also made to fit existing machines.

HIGH-CLASS MECHANICAL

DENTISTRY

Lowest Prices, Superior Workmanship. Price Lists free.

FRED. H. BARKER, DENTIST, GRIMSBY.

Barker's Premier Amalgam. The Best Stopping.

PRICE 10/- PER OZ.

CHEMISTS—NOTE THIS!

You can add largely to your profits, without outlay or risk, by taking up an AGENCY for our RUBBER STAMPS, TYPE, SEALS, STENCILS, MARKING INK, &c.

Full particulars, Transparency for Window, Specimen Sheets, and Rubber Stamp complete, with your Name and Address, as sample, FREE.

D. C. RICHFORD, 44 Snow Hill, LONDON.

There is more profit on Rubber Stamps than on any article a Chemist sells.

We guarantee our Pure Acid to be made directly and entirely from Phosphorus. Absolutely the best and purest on the market.

ANSWERS ALL THE REQUIREMENTS OF THE NEW & P.

Phosphoric Acid

WALTER VOSS & CO.

Phosphoric Acid Manufacturers

MILWALL, LONDON, ENGLAND.

PHOTOGRAPHY, STEAM, ELECTRICITY

Cameras (4-plate), complete, 1/- to 21/-

Send Trade Card for an Illustrated Catalogue of Photographic, Steam, and Electrical Novelties.

B. LOWE & CO., 2 Warstone Parade, Birmingham.

See C. & D. Diary, page 108.

SHEEP DIPS, FLUID AND PASTE (Non-poisonous). DISINFECTANTS, FLUID AND POWDER.

LOWEST PRICES IN BULK OR PACKED.

J. BARRATT & CO., MIDDLETON, near MANCHESTER.



E. H. THIELLAY'S (Registered 1867)

EAU F. JOUVENCE, GOLDEN.

Producing Flaxen Golden Hair.

Gold Medal, PARIS, 1867. PHILADELPHIA, 1876.

This is a very superior article. In Bottles at 8s. 6d., & 10s.

All Wholesale Houses, or direct from

E. H. THIELLAY.

Parfumeur-Chimiste, Amersham Park, New Cross, LONDON, S.E.

(SHOWROOMS AT CHARING CROSS HOTEL.)

THE THORNTON-PICKARD

See our 2-paged Advt.,
pages 100 and 101.

Chemists' and Druggists'
Diary, 1899.

CAMERAS & SHUTTERS

Illustrated Catalogue with full particulars, post free, from
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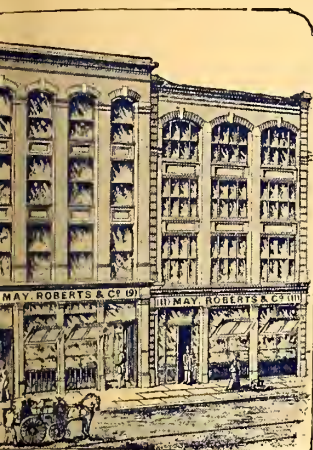
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